

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 03:54:24 ; Search time 82.2347 Seconds
(without alignments)
7227.512 Million cell updates/sec

Title: US-09-938-842A-1034

Perfect score: 1071

Sequence: 1 atggcgacaattcagaagct.....caggtcatcgaaccactga 1071

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

1: /cgn2_6/ptodata/2/ina/5A COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCTUS COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	ID	Description
1	44	4.1	7218	1	US-08-232-463-14
2	41	3.8	7218	1	US-08-232-463-14
3	34	3.2	654	4	US-08-956-171B-613
4	33	3.1	2127	4	US-09-252-991A-8192
5	33	3.1	2874	4	US-09-252-991A-8112
6	32.8	3.1	4403765	3	US-09-103-840A-2
7	32.2	3.0	2406	4	US-09-632-098-5
8	32.2	3.0	2439	4	US-09-632-098-6
9	31.4	2.9	4411529	3	US-09-103-840A-1
10	31	2.9	3842	4	US-09-976-594-279
11	30.6	2.9	412	3	US-08-961-083-111
12	30.6	2.9	412	4	US-09-536-784-111
13	30.6	2.9	894	4	US-09-540-236-1485
14	30.6	2.9	912	4	US-09-489-039A-3905
15	30.6	2.9	1288	4	US-09-620-312D-546
16	30.6	2.9	1648	4	US-08-833-381-2048
17	30.6	2.9	6693	4	US-08-961-527-195
18	30.6	2.9	49617	4	US-09-596-002-28
19	30.4	2.8	2172	1	US-07-982-712-1
20	30.4	2.8	7766	4	US-09-125-619-3
21	30.4	2.8	580073	4	US-08-545-528D-1
22	30.2	2.8	801	3	US-08-998-416-436
23	30.2	2.8	1553	3	US-09-217-490-1
24	30.2	2.8	2396	4	US-09-221-017B-74
25	30.2	2.8	23673	4	US-09-773-816-1
26	30	2.8	364	4	US-09-023-655-289
27	30	2.8	536	3	US-08-714-918-57

28 30 2.8 536 3 US-09-265-315-57 Sequence 57, Appl
29 30 2.8 536 3 US-09-265-315-57 Sequence 57, Appl
30 30 2.8 536 3 US-09-266-417-57 Sequence 57, Appl
31 30 2.8 536 4 US-09-528-709-57 Sequence 57, Appl
32 30 2.8 536 4 US-09-527-745-57 Sequence 57, Appl
33 30 2.8 161652 4 US-09-497-855A-40 Sequence 40, Appl
34 30 2.8 1664976 4 US-08-916-421B-1 Sequence 1, Appl
35 29.8 582 4 US-09-252-991A-12349 Sequence 12349, A
36 29.8 618 4 US-09-252-991A-12199 Sequence 12199, A
37 29.8 1036 4 US-09-252-991A-12295 Sequence 12295, A
38 29.8 2628 4 US-09-294-531B-5 Sequence 5, Appl
39 29.8 4062 4 US-09-620-312B-348 Sequence 348, App
40 29.8 8878 1 US-08-759-444-2 Sequence 1, Appl
41 29.8 9880 3 US-08-680-897-1 Sequence 1, Appl
42 29.8 38155 4 US-09-453-702B-79 Sequence 79, Appl
43 29.8 2.8 4403765 3 US-09-103-840A-2 Sequence 2, Appl
44 29.8 2.8 4411529 3 US-09-103-840A-1 Sequence 1, Appl
45 29.6 2.8 1302 2 US-08-529-600D-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, P. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-F1s
US-08-232-463-14

Query Match

4.1%; Score 44; DB 1; Length 7218;


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;      REGISTRATION NUMBER: 46,789
;      REFERENCE/DOCKET NUMBER: PB248P1
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (240) 314-1224
;      TELEFAX: (301) 309-8439
;      INFORMATION FOR SEQ ID NO: 613:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 654 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;      SEQUENCE DESCRIPTION: SEQ ID NO: 613:
US-08-956-171E-613

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Query Match	3.2%;	Score 34;	DB 4;	Length 654;
Best Local Similarity	48.0%;	Pred. No. 0.61;		
Matches 97;	Conservative 0;	Mismatches 105;	Indels 0;	Gaps 0;
QY	472	ATGGGTCAAATCTGATGAAGAGAAACGTAAACGACCTTCTACAGTGAGTATATAGAC	531	
Db	455	ATTACTGCAATTGNTAGACATGAAATAAAGAATACGCCAAATACTGTTTAATTGCC	396	
QY	532	ATAAGCGACGCCGTTTCAGCTTCTCCGGTTTAGCTCCAAATGGCCAGCAGCAACGATC	591	
Db	395	TTAGGCATAGACTTTTAGGGTCACTGATTCACCGACAGTTACTGCTACTACTCTGTA	336	
QY	592	CAACCTCCGAAGCTCTGGCATCATCCACTGTGGCTCAGCAACTTTCGCCGCAAGGAATG	651	
Db	335	CCACCAACCGAAATCCGGCGACTTAATAACGCCTAAGAACACAGAGATACCAACA	276	
QY	652	TATCCGATGTGGCTATTCCAT	673	
Db	275	AACGGTGCCTGGCCTTTTGAT	254	

```

RESULT 4
US-09-252-991A-8192
; Sequence 8192, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 8192
; LENGTH: 2127
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (291)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-8192

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	Query Match Best Local Similarity Matches	3.1%; 49.2%; 87;	Score 33; Pred. No. 2.5; Conservative 0;	DB 4; Length 2127; Mismatches 90; Indels 0; Gaps 0;
OY	111	CCAAGTAAATCCACATGAGTCTCGAGGCCCAAGGCGGAGCCGCGTGAATGCCGTGCTTTTC		170
Db	70	CCAAGCTGGAAACAGCTGGAGGCCCTATAGCAGACAGCCACCGGAGAGGCCCTGAGACC		129
OY	171	AATGCTTTTAGTCTCCACCGCTTCGACAGACACACCATTGAAGAGAGCTTGACGCTAAAGA		230
Db	130	AATACCGGCACCGCATTCGCCGATACCCAGAAACCCCTGAAGCCGGGAGCGCGGACCG		189

Qy 231 CCGTCACACGAAGGTTGAAGSAAGGGAGAGGATACGGATGCCTGCCACGTGTGC 287
||| | ||||| + ||||| | ||||| | ||||| | ||||| |
Db 190 TCGTGTCTGAAGACTTCATCATGCGCGAGAAGATCACCCCACTCGACACGAGCGC 246

RESULT 5

```

US-09-252-991A-8112/c
; Sequence 8112, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 8112
; LENGTH: 2874
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (2266)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-8112

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	Query Match	3.1%	Score 33;	DB 4;	Length 2874;
	Best Local Similarity	49.2%;	Pred. No. 2.9;		
	Matches	87;	Conservative	0;	Mismatches 90; Indels 0; Gaps 0;
QY	111	CCAAGTAAATCCACACAGTGAGTCTCGAGCCCAAGGCGGACCGGTGATCGGTCTTTTC	170		
Db	2487	CMAGCTGGAACAGCTTGGAGGCCCTATAGCAGACGACGCCACCGGAGGCGCCTGAGCACC	2428		
QY	171	AATGTCTTTTGTCTCCACCGTCTTTCGACAGSACCACCAATTTGAAGAGAGCTTCGACTAAAGA	230		
Db	2427	AATACCGGACCCGGCATCCCGATACCGAAGAACACCTGNAAGCCGCGAGCGGACCG	2368		
QY	231	CGGTACACAGAGGTTGAAGGAAGCGGAGAGGATACGGATGCCTCCACGTGTGC	287		
Db	2367	TGTTGCTCGAGACATTCATCATGCGCGAAGATCACCCACTTCGACACCAAGCGC	2311		

RESULT 6

```

US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007, 00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

```



```
Best Local Similarity 59.6%; Pred. No. 1.2e+02;
Matches 53; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

QY 136 GAGCCCAAGCGGAGCGGTCGATCGCGTCTGTTTCAATGCTTTAGCTCCACCGTCTTCG 195
Db 3947108 GCGGACAAGCGCGCGCGGCTGCTGGCGGGCGCGCGATACCCACCGGATCG 3947167
QY 196 ACAGGACCACCATGGAAGAGAGCTTCGAC 224
Db 3947168 GCGCACCGCGGCTGACGCGGCGCACCGGC 3947196

RESULT 10
US-09-976-594-279
; Sequence 279, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 279
; LENGTH: 3842
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 2258794CB1
US-09-976-594-279

Query Match 2.9%; Score 31; DB 4; Length 3842;
Best Local Similarity 57.9%; Pred. No. 15;
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 880 AGCGGTTCAATTTATCAAGAGCGAGCTCGGTTATCGCTCCGAGCTCAAGCTCAGCGTA 939
Db 3033 AGCGGCTGTGGCGGTGGAGAGCGCTGCGAGTGAGCTGCGCTTCAAGCTCAGCACTC 3092
QY 940 ACAACCGGTAGTTCATCGTCAATTCGAACAAC 974
Db 3093 ACAAGATGCTGTTCATCGTGAACCTCGAGGACTAC 3127

RESULT 11
US-08-961-083-111
; Sequence 111, Application US/08961083
; Patent No. 6159469
; GENERAL INFORMATION:
; APPLICANT: Choi et. al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; NUMBER OF SEQUENCES: 452
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/961,083
; FILING DATE: OCT-30-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Michelle S. Marks
; REGISTRATION NUMBER: 41,971
; REFERENCE/DOCKET NUMBER: PB340P3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 111:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 111:
US-09-536-784-111
```

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB340P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 111:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-961-083-111

Query Match 2.9%; Score 30.6; DB 3; Length 412;
Best Local Similarity 53.8%; Pred. No. 6.2;
Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 798 TGTTCACAGCGCTTCCACGATGGCTAGACCACTCTCTTTACAAGTTGTTCCACGACGG 857
Db 177 TGTCCAATCGCTCTTATCATGTTGCGACTGCTCCACACACCTTTTTCGAAGGGGG 236
QY 858 CTTTGTATCGTTTCAGACGTTAGCGGTTTCGAATTTATCAAGAGCGGCTCGGTTAT 914
Db 237 CTTTGTCTCAGTACCGCGCTGTTATCGTCGGCGTGTCTCAGGAGTGCTCTCTTAT 293

RESULT 12
US-09-536-784-111
; Sequence 111, Application US/09536784
; Patent No. 6573082
; GENERAL INFORMATION:
; APPLICANT: Choi et. al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; NUMBER OF SEQUENCES: 452
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/536,784
; FILING DATE: 30-Oct-1997
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/961,083
; FILING DATE: OCT-30-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Michelle S. Marks
; REGISTRATION NUMBER: 41,971
; REFERENCE/DOCKET NUMBER: PB340P3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 111:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 111:
US-09-536-784-111
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Query Match 2.9%; Score 30.6; DB 4; Length 912;
Best Local Similarity 56.4%; Pred. No. 9.6;
Matches 57; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 311 GAGAGTTAGTTCACAAATCGGCGGAAACGATTCCGGTGGTTGTTGGAGAACGCTGAGC 370
DB 202 GCGAATCACGGAATGATCCCGGGTTATAGGGGGCGAGGAGTTGCGGAATACCGCA 143
QY 371 CGCGGATTATAGCGCCACCGGTACGGGAACGGTTCCCGCC 411
DB 142 TGAGGATCATCACCAACCGTATATACGACCGCCGACGCGCC 102

RESULT 15
US-09-620-312D-546/c
; Sequence 546, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 546
; LENGTH: 1288
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (95)..(928)
US-09-620-312D-546

Query Match 2.9%; Score 30.6; DB 4; Length 1288;
Best Local Similarity 55.0%; Pred. No. 12;
Matches 60; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 7 ACAATTCAGAAGCTTCGAGAAGTTGCAGGCAAGATCAAACTCTAAGAGCCGTGATCTA 66
DB 439 ATAGTTCGGCACCTCTCCACCGTTTGGCCCTCCACGATGTTCTTCAGAGTCTGTGCA 380
QY 67 ACCATCATCAACGGGCTCAGAAAACGGTTCGAAACCTTCAGACCTTCCNAG 115
DB 379 ATCATTATCAAGGCGATCTGGATGGTTCGAAATTTGACTGTCTTCTTCAAG 331

Search completed: August 7, 2004, 06:55:43
Job time : 98.2347 secs

Query Match 2.9%; Score 30.6; DB 4; Length 412;
Best Local Similarity 53.8%; Pred. No. 6.2;
Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 798 TGTTCAACAGGCTTCCAGCATGGCTAGACACCACTCCCTTTACAGTTGTTCCAAAGCAGCG 857
DB 177 TGTCCAATCGCTCTTTATCATGTTGCGACTGCGTCCACACACCTTTTTCNAGGGGG 236
QY 858 CTTTGTATCCGTTTCAGACGTTAGCGGTTCCGAATTTATCAAGACGCGTGGTTAT 914
DB 237 CTTTGTCTCAGTACCGCTGTATCGCTGGCGGTGTCTCAGGAGTGCCTGTCTTAT 293

RESULT 13
US-09-540-236-1485/c
; Sequence 1485, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 1485
; LENGTH: 894
; TYPE: DNA
; ORGANISM: M.catarrhalis
US-09-540-236-1485

Query Match 2.9%; Score 30.6; DB 4; Length 894;
Best Local Similarity 46.8%; Pred. No. 9.5;
Matches 96; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 432 AACCTTAAATCCCGACGACGACGACGCTGATTCGATGAGTGGTGAATCTGATGAA 491
DB 297 ATCTTTAAAGTACAGCTTCGGCATCGGACGCTGATACGGTGTGCTAAGATATTTC 238
QY 492 GAAGAAACGTAACGACCTTCTAACAGTGAAGTATATAGACATAGCGGCGGTTTCAGC 551
DB 237 AGCAAAATCTGCAAGCTTCTAGGATCATATCCACCGACTCAGGATCTGCGGCGAC 178
QY 552 TTCTCCGTTTGTAGTCCAAATGCCACGACGACGATCCACCTCCGCAAGCTCTGGC 611
DB 177 ATTATCCAGTGTTTTATAATGTGCTTGTAGTCAAGCATCTCATTTTAAAAAATTAAT 118

Query Match 2.9%; Score 30.6; DB 4; Length 894;
Best Local Similarity 46.8%; Pred. No. 9.5;
Matches 96; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

US-09-489-039A-3905/c
; Sequence 3905, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 3905
; LENGTH: 912
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-3905

1 ATGCGCAAAATTCAGAACCTTGAAGAAGTTGCAGGCAAAGATCAAATCTTAAGACGGTT 60
| | | | |
1 ATGCGCAAAATTCAGAACCTTGAAGAAGTTGCAGGCAAAGATCAAATCTTAAGACGGTT 60
| | | | |
61 GATCTAACCATTCAACGGCGCTCAGAAAAGTGCGAAAATTCAAGACCTTTCCAAAGTAAAT 120

Db 61 GATCTAACCATCATCAACGGCGTCAGAAACGTCGAACTTCAAGACCTTTCCAAGTAAAT 120
QY 121 CCACAGTGTCTCGAGGCCCAAGCGGAGCCGGTGTATGCGTCTGTTTCAATGCTTTTA 180
Db 121 CCACAGTGTCTCGAGGCCCAAGCGGAGCCGGTGTATGCGTCTGTTTCAATGCTTTTA 180
QY 181 GCTCCACCGTCTTCGACAGGACCAACATTCGAAGAGAGCTTCGACTAAAGACCGGTCAACG 240
Db 181 GCTCCACCGTCTTCGACAGGACCAACATTCGAAGAGAGCTTCGACTAAAGACCGGTCAACG 240
QY 241 AAGGTTGAAGGAAGAGGAGAGATACGGATCGCTCCACGCTGCCAGTGTGCGGTAGGATTTT 300
Db 241 AAGGTTGAAGGAAGAGGAGAGATACGGATCGCTCCACGCTGCCAGTGTGCGGTAGGATTTT 300
QY 301 CAATTAATCTGAGAGTTAGGTCAAAATCCGACGGCGAAAGATTCGGTGTGTTTGGAG 360
Db 301 CAATTAATCTGAGAGTTAGGTCAAAATCCGACGGCGAAAGATTCGGTGTGTTTGGAG 360
QY 361 AACGCTGAGCGGCGATTTATAGCGCCACCGGTACGGGAACGGTTCGCGCCATCGCCATG 420
Db 361 AACGCTGAGCGGCGATTTATAGCGCCACCGGTACGGGAACGGTTCGCGCCATCGCCATG 420
QY 421 TCGGTTAAACGAACTTTAAATAATCCGACGACGACGACGACGACGACGACGACGACGAC 480
Db 421 TCGGTTAAACGAACTTTAAATAATCCGACGACGACGACGACGACGACGACGACGACGAC 480
QY 481 AATCTGATGAAGAAGAAAGCTTAACGACCTTCTACAGTGTATATAGACATTAAGCGAC 540
Db 481 AATCTGATGAAGAAGAAAGCTTAACGACCTTCTACAGTGTATATAGACATTAAGCGAC 540
QY 541 GCGGTTTCAGCTTCTCCGCTTTAGCTCCAAATTCGACGACGACGACGACGACGACGACG 600
Db 541 GCGGTTTCAGCTTCTCCGCTTTAGCTCCAAATTCGACGACGACGACGACGACGACGACG 600
QY 601 CAAGCTCTGGCATCATCCACTGTGCTCAGCAACTTCTGCGCAAGGAATGTATCCGATG 660
Db 601 CAAGCTCTGGCATCATCCACTGTGCTCAGCAACTTCTGCGCAAGGAATGTATCCGATG 660
QY 721 TGGGCTATTCCATCAAGCGAATGATTCGAGCGTTCGAGCTTCTTCTGATCCACAA 720
Db 721 TGGGCTATTCCATCAAGCGAATGATTCGAGCGTTCGAGCTTCTTCTGATCCACAA 720
QY 781 ATCGTGTCTCGTCAATCAGCTCAGTTATAGCTTTTCCGCGCGCGCTGCTTCGCGG 780
Db 721 ATCGTGTCTCGTCAATCAGCTCAGTTATAGCTTTTCCGCGCGCGCTGCTTCGCGG 780
QY 781 TCGTCTTACGTCGCGCTGTTCAACAGGCTTCCACGATGGCTAGACCACTCTCTTTTAA 840
Db 781 TCGTCTTACGTCGCGCTGTTCAACAGGCTTCCACGATGGCTAGACCACTCTCTTTTAA 840
QY 841 GTTGTTCGAAGCAGCGCTTTGATCCGTTTCAGACGTTAGCGGTTTCGAATTTATCAAGA 900
Db 841 GTTGTTCGAAGCAGCGCTTTGATCCGTTTCAGACGTTAGCGGTTTCGAATTTATCAAGA 900
QY 901 GCGAGCTCGGTTATGGCTCCGAGCTCAAGCTCAGCGGTAAACCGGTAGTTTCATCGTCA 960
Db 901 GCGAGCTCGGTTATGGCTCCGAGCTCAAGCTCAGCGGTAAACCGGTAGTTTCATCGTCA 960
QY 961 ATTGCAAAACAAACGACGACGACGCTGAGAGACTTCTCCCTAGAGATATACGAGAAACAA 1020
Db 961 ATTGCAAAACAAACGACGACGCTGAGAGACTTCTCCCTAGAGATATACGAGAAACAA 1020
QY 1021 GAGCTTCCAGTTTCATGAGCACCAACAGACGCTCATCGAACCACTGA 1071
Db 1021 GAGCTTCCAGTTTCATGAGCACCAACAGACGCTCATCGAACCACTGA 1071

RESULT 2

US-09-938-842A-1034

; Sequence 1034, Application US/09938842A

; Publication No. US20040009476A9

; GENERAL INFORMATION:

; APPLICANT: Harper, Jeff

; APPLICANT: Krepes, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 1034
; LENGTH: 1071
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-1034

Query Match 100.0%; Score 1071; DB 11; Length 1071;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1071; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCGCAATTCAGAAGCTTGAAGAAGTTGCAAGGCAAAAGATCAAACTCTAAGAGCCGTT 60
Db 1 ATGCGCAATTCAGAAGCTTGAAGAAGTTGCAAGGCAAAAGATCAAACTCTAAGAGCCGTT 60
QY 61 GATCTAACCATCATCAACGGCGTCAGAAACGTCGAACTTCAAGACCTTTCCAAGTAAAT 120
Db 61 GATCTAACCATCATCAACGGCGTCAGAAACGTCGAACTTCAAGACCTTTCCAAGTAAAT 120
QY 121 CCCACAGTGTCTCGAGCCCAAGCGGAGCGGTGATGCGCTGCTTTCAATGCTTTTA 180
Db 121 CCCACAGTGTCTCGAGCCCAAGCGGAGCGGTGATGCGCTGCTTTCAATGCTTTTA 180
QY 181 GCTCCACCGTCTTCGACAGGACCAACATTCGAAGAGAGCTTCGACTAAAGACCGGTCAACG 240
Db 181 GCTCCACCGTCTTCGACAGGACCAACATTCGAAGAGAGCTTCGACTAAAGACCGGTCAACG 240
QY 241 AAGGTTGAAGGAAGAGGAGAGATACGGATCGCTCCACGCTGCCAGTGTGCGGTAGGATTTT 300
Db 241 AAGGTTGAAGGAAGAGGAGAGATACGGATCGCTCCACGCTGCCAGTGTGCGGTAGGATTTT 300
QY 301 CAATTAATCTCGAGAGTTAGGTCAAAATCCGACGGCGAAACGATTCGGTGTGTTGGAG 360
Db 301 CAATTAATCTCGAGAGTTAGGTCAAAATCCGACGGCGAAACGATTCGGTGTGTTGGAG 360
QY 361 AACGCTGAGCGGCGATTTATAGCGCCACCGGTACGGGAACGGTTCGCGCCATCGCCATG 420
Db 361 AACGCTGAGCGGCGATTTATAGCGCCACCGGTACGGGAACGGTTCGCGCCATCGCCATG 420
QY 421 TCGGTTAAACGAACTTTAAATAATCCGACGACGACGACGACGACGACGACGACGACGAC 480
Db 421 TCGGTTAAACGAACTTTAAATAATCCGACGACGACGACGACGACGACGACGACGACGAC 480
QY 481 AATCTGATGAAGAAGAAAGCTTAACGACCTTCTACAGTGTATATAGACATTAAGCGAC 540
Db 481 AATCTGATGAAGAAGAAAGCTTAACGACCTTCTACAGTGTATATAGACATTAAGCGAC 540
QY 541 GCGGTTTCAGCTTCTCCGCTTTAGCTCCAAATTCGACGACGACGACGACGACGACGACGAC 600
Db 541 GCGGTTTCAGCTTCTCCGCTTTAGCTCCAAATTCGACGACGACGACGACGACGACGACGAC 600
QY 601 CAAGCTCTGGCATCATCCACTGTGCTCAGCAACTTCTGCGCAAGGAATGTATCCGATG 660
Db 601 CAAGCTCTGGCATCATCCACTGTGCTCAGCAACTTCTGCGCAAGGAATGTATCCGATG 660
QY 661 TGGGCTATTCCATCAAGCGAATGATTCGAGCGTTCGAGCTTCTTCTGATCCACAA 720
Db 661 TGGGCTATTCCATCAAGCGAATGATTCGAGCGTTCGAGCTTCTTCTGATCCACAA 720

QY 721 ATCGCTGGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCCGCGCTGCTTCGCG 780
Db 721 ATCGCTGGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCCGCGCTGCTTCGCG 780
QY 781 TCGCTTTACGTCGCCGCTGTTCAACAGGCTTCCACGATGCTAGACACCTCTTTACAA 840
Db 781 TCGCTTTACGTCGCCGCTGTTCAACAGGCTTCCACGATGCTAGACACCTCTTTACAA 840
QY 841 GTTGTTCGAAGCAGCGCTTTGTATCCGTTTTCAGAGCTTAGCGGTTTCAATTTATCAAGA 900
Db 841 GTTGTTCGAAGCAGCGCTTTGTATCCGTTTTCAGAGCTTAGCGGTTTCAATTTATCAAGA 900
QY 901 GCGAGCTCGGTTATGCTCGGAGCTCAAGCTAGGCGTAAACCCGCTAGTTTCATCGTCA 960
Db 901 GCGAGCTCGGTTATGCTCGGAGCTCAAGCTAGGCGTAAACCCGCTAGTTTCATCGTCA 960
QY 961 ATTGCAACCAACAGCAGCGTCAGCCTGAGAGCTTCTCCCTAGAGATATACGAGAACA 1020
Db 961 ATTGCAACCAACAGCAGCGTCAGCCTGAGAGCTTCTCCCTAGAGATATACGAGAACA 1020
QY 1021 GAGCTTACAGTTTCATGAGCACCACCAACAGCAGCGTCATCGAACCACTGA 1071
Db 1021 GAGCTTACAGTTTCATGAGCACCACCAACAGCAGCGTCATCGAACCACTGA 1071

RESULT 3

US-09-924-035A-502/c
; Sequence 502, Application US/0924035A
; Patent No. US20020142319A1
; GENERAL INFORMATION:
; APPLICANT: Grlach, Jrn
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: thaliana
; CURRENT APPLICATION NUMBER: US/09/924,035A
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: US 60/148,784
; PRIOR FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 900
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 502
; LENGTH: 460
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(460)
; OTHER INFORMATION: n = A,T,C or G
US-09-924-035A-502

Query Match 41.8%; Score 448; DB 9; Length 460;
Best Local Similarity 99.6%; Pred. No. 3.1e-145;
Matches 459; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 600 GCAAGCTCTGCATCATCCACTGTGGCTCAGCAACTTCTGCGGAAGGAATGTATCCGAT 659
Db 460 GCAAGCTCTGCATCATCCACTGTGGCTCAGCAACTTCTGCGGAAGGAATGTATCCGAT 401
QY 660 GTGGGCTATTCCATCAACGCAATGATTCGACGCTCGAGCTTCTTCTGATTCACATCCACA 719
Db 400 GTGGGCTATTCCATCAACGCAATGATTCGACGCTCGAGCTTCTTCTGATTCACATCCACA 341
QY 720 AATCGCTGGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCGCGCTGCTTCGCC 779
Db 340 AATCGCTGGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCGCGCGNG-TTCGCC 282
QY 780 GTCGCTTTACGTCGCCGCTGTTCAACAGGCTTCCAGATGCTAGACACCTCTTTACA 839
Db 281 GTCGCTTTACGTCGCCGCTGTTCAACAGGCTTCCAGATGCTAGACACCTCTTTACA 222
QY 840 AGTTGTTCCAGCAGCGCTTTGTATCCGTTTCAGAGCTTAGCGGTTTCAATTTATCAAG 899
Db 221 AGTTGTTCCAGCAGCGCTTTGTATCCGTTTCAGAGCTTAGCGGTTTCAATTTATCAAG 162

QY 900 AGCAGCTCGGTTATGGCTCCGAGCTCAAGCTCAGGGTAAACACCGGTAGTTCAATCGTC 959
Db 161 AGCAGCTCGGTTATGGCTCCGAGCTCAAGCTCAGGGTAAACACCGGTAGTTCAATCGTC 102
QY 960 AATTGCAACCAACAGCAGCGTCAGCCTGAGAGCTTCTCCCTAGAGATATACGAGAACA 1019
Db 101 AATTGCAACCAACAGCAGCGTCAGCCTGAGAGCTTCTCCCTAGAGATATACGAGAACA 42
QY 1020 AGAGCTTCCAGCTTTCATGAGCACCACCAACAGCAGCGTCAT 1060
Db 41 AGAGCTTCCAGCTTTCATGAGCACCACCAACAGCAGCGTCAT 1

RESULT 4

US-09-770-444-615/c
; Sequence 615, Application US/09770444
; Patent No. US2002023280A1
; GENERAL INFORMATION:
; APPLICANT: Gorlach, Jörn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kriker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: thaliana
; CURRENT APPLICATION NUMBER: US/09/770,444
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,502
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 615
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(453)
; OTHER INFORMATION: n = A,T,C or G
US-09-770-444-615

Query Match 41.0%; Score 439; DB 9; Length 453;
Best Local Similarity 99.1%; Pred. No. 4.3e-142;
Matches 450; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
QY 607 CTGGCATCATCCACTGTGGCTCAGCAACTTCTGCGGAAGGAATGTATCCGATGCGGCT 666
Db 453 CTGGCATCATCCACTGTGGCTCAGCAACTTCTGCGGAAGGAATGTATCCGATGCGGCT 394
QY 667 ATTCATCAACAGCAATGATTCGACGCTCGAGCTTCTTCTGATTCGACAATCGCT 726
Db 393 ATTCATCAACAGCAATGATTCGACGCTCGAGCTTCTTCTGATTCGACAATCGCT 334
QY 727 GGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCGCGCTGCTTCGCGCTCGTCT 786
Db 333 GGTCCGTCGAATCAGCCTCAGTTATAGCTTTTCCCGCGCGCGC-NNNTCCGCGCTGCTCT 275

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QY 787 TAGCTCGCGCTGTTCAACAGGCTTCCACGATGGCTAGACCACTCTCTTACAGTTGTT 846
Db 274 TAGCTCGCGCTGTTCAACAGGCTTCCACGATGGCTAGACCACTCTCTTACAGTTGTT 215
QY 847 CCAAGCAGCGGCTTGTATCCGTTTCAGACGTTAGCGGTTGAAATTTATCAAGAGCGAG 906
Db 214 CCAAGCAGCGGCTTGTATCCGTTTCAGACGTTAGCGGTTGAAATTTATCAAGAGCGAG 155
QY 907 TCGGTTATGGCTCGAGCTCAAGCTCAGGCTTAACACCGGTAGTTTCATCGTCAATTTGCA 966
Db 154 TCGGTTATGGCTCGAGCTCAAGCTCAGGCTTAACACCGGTAGTTTCATCGTCAATTTGCA 95
QY 967 ACAACACGACGACACGCTGAGAGCTTCTCCCTAGAGATATACGAGAAACAGAGCTT 1026
Db 94 ACAACACGACGACACGCTGAGAGCTTCTCCCTAGAGATATACGAGAAACAGAGCTT 35
QY 1027 CACCAAGTTATAGCACCAACACAGCAGCGTTCAT 1060
Db 34 CACCAAGTTATAGCACCAACACAGCAGCGTTCAT 1

RESULT 5
US-10-424-599-109777
; Sequence 109777, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kowalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 109777
; LENGTH: 1847
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_70141C.1
US-10-424-599-109777

Query Match 21.3%; Score 228.6; DB 13; Length 1847;
Best Local Similarity 62.7%; Pred. No. 3.7e-68; Indels 18; Gaps 2;
Matches 398; Conservative 0; Mismatches 219;

QY 136 GAGCCCAAGCGGAGCGGCTGATGCGGTTTCAATGTCTTTAGTCCACCGTCTTCG 195
Db 329 GTGCAGGTGCGGCGGGATGTTATGTCTCAATGTCCAAAGGCTCTGGCCAGGCCCAAGCC 388
QY 196 ACAGGACACCAATTGAAGAGAGCTTCGACTAAGACCGTCACACGAAGTTGAAGGAAGA 255
Db 389 CAGGCCCAACCAACAAAGCGGCTCTCCAAAGACCGCCACCAAAAGTAGAGGGGCGA 448
QY 256 GGGAGAAGATACGATGCTCCAGCTGTGCGGTAGGATTTTCAATTAATCTCGAGAG 315
Db 449 GCGAGAAGATCCGAATGCCGCCACGTTGTGGGAGAGATCTTCAGCTGACCCGAGAG 508
QY 316 TTAGGTCAAAATCCGACGCGGAAACGATTCGGTGTGTTTCGAGAACGCTGAGCGGG 375
Db 509 CTCGGTCATAAATCCGACGCGGAAACCATCCGGTGGCTCTCTCGAGCACGCCGAGCCGCG 568
QY 376 ATTATAGCCGACCGGTACGGAAACGTTCCCGCATCGCATGTCGGTTAAACGAAC 435
Db 569 ATCATGCGCCACCGGACCGGCAAGTCCCGCCCATCGCATGTCGGTTAAATGGAACG 628
QY 436 TTAAAAATCCCGACGACGACGAACGCTGATTTCTGATATATGGGTGAAATCTGATGAAGAAG 495
Db 629 TTAAAGATTTCCGACACCTCACCTTCGATCAAGAACCCGAGAGCCGCGGAGGAAG 688
QY 496 AAACGTAACGACCTTCTTAACAGTGAGTATATAGACATAA---GGACGCCGTTTCAGCT 552

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Db 689 AAGCGCAACGACCCCGAATAGCGCTAGTGGACATAAACCGCGCCGCTTCGGTC 748
QY 553 TCCTCCGCTTAGCTCCAAATTGGCAGCAGACGACGATCCAACTCCGCAAGCTCTGGCA 612
Db 749 TCGGCGGGCTCGAAGCTCTATTATTAATAATAAACCAACGACGACGACGATG 808
QY 613 TCATCCACTGTGTGCTCAGCAATTC-----TGGCGCAGGAAGTATCCG 657
Db 809 ACGACAACGATGCAATTCGCAACATACAGCAATTCGTTGCGCAAGGAATGGTTCCC 869
QY 658 ATGTGGGTATTTCATCAACGCAATGATTCGACGCTCGAGCTTCTTCTTGATTCCA 717
Db 869 GTGTGGGCCCATCTCTTCAACGCGCTGTTCCGGCTCGAGAGCTTTTTTGTGTTCT 928
QY 718 CAATTCGCTGCTGCTGCAATTCAGCTCAGCTCAGTTATT 752
Db 929 CAACGCGCTGCTTTCAGCATCAACCTCAGTTT 963

RESULT 6
US-09-770-696-257
; Sequence 257, Application US/09770696
; Patent No. US2001004940A1
; GENERAL INFORMATION:
; APPLICANT: Gorlach, Jorn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Krickler, Ted
; APPLICANT: Slader, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurbman, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; TITLE OF INVENTION: thaliana
; FILE REFERENCE: 2031US (PARA-020PRV)
; CURRENT APPLICATION NUMBER: US/09/770,696
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,278
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 911
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 257
; LENGTH: 185
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-696-257

Query Match 17.3%; Score 185; DB 9; Length 185;
Best Local Similarity 100.0%; Pred. No. 1.5e-53;
Matches 185; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 GCAAGATCAAACTCTAAGAGCGGTTGATCTTAACCATCATCAACGCGCTCAGAAAGCTG 94
Db 1 GCAAGATCAAACTCTAAGAGCGGTTGATCTTAACCATCATCAACGCGCTCAGAAAGCTG 60
QY 95 AAATCTCAAGCTTTCAGTAATCCACAGTAGTCTCGAGCCCAAGCGGAGCGCGG 154
Db 61 AAATCTCAAGCTTTCAGTAATCCACAGTAGTCTCGAGCCCAAGCGGAGCGCGG 120
QY 155 TGATGCGCTGCTTTCAATGTCTTTAGCTCCACCGTCTTCGACAGACCACTTGAAGA 214

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Db 121 TGATGCGTGGTTTCAATGCTTTAGTCCACCGTCTTCGACAGGACCACCAATTGAAGA 180
QY 215 GAGCT 219
| | | | |
Db 181 GAGCT 185

RESULT 7

US-10-425-114-8512
; Sequence 8512, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 8512
; LENGTH: 1090
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700756889_FLI
US-10-425-114-8512

Query Match 17.1%; Score 183.6; DB 13; Length 1090;
Best Local Similarity 63.7%; Pred. No. 1.4e-52;
Matches 320; Conservative 0; Mismatches 164; Indels 18; Gaps 2;
QY 269 GCATGCTGCCACGTTGCGGTAGATTTCATTAATTAACGAGATTAGTCAAAAT 328
Db 1 GAATCCCGCCACGTTGCGGGAGGATCTCCAGCTGACCCGAGAGCTCGGTCTATAAT 60
QY 329 CCGACGGCGAAACGATTGCGTGGTTGTTGGAGAACGCTGAGCGGGGATTATAGCGCA 388
Db 61 CGACGGCGAAACGATTGCGTGGTTGTTGGAGAACGCTGAGCGGGGATTATAGCGCA 120
QY 389 CGGTACCGGAAACGTTCCCGCATCGCCATGTCGGTTAAACGGAACCTTAAAAATCCCGA 448
Db 121 CCGGACCGGCACAGTCCCGCCCATCGCGATGTCGTCAATGGAACGTTAAAGATTCCGA 180
QY 449 CGACACGAAACGCTGATCTGATATGGGTGAAATCTGATGAAGAAACGTTAAACGAC 508
Db 181 CCACCTCACTTCCGATCAAGAACCCGAGAGCCCGCGAGAGGAAGAACGCAAAACGAC 240
QY 509 CTTCTACAGTGAGTATATAGACATAA---GGACGCGGTTTCAGTCTCCCGGTTAG 565
Db 241 CCGGAAATAGCGCTACGTGGACATTAACGGCGCGCGGTTTCGGTCTCGGCGGGCTCG 300
QY 566 CTCGAATGCGACGACAAACGATCCAACTCCGCAAGCTCTGGCATCATCACTGTGG 625
Db 301 CAAGCTCTATTATTAATAATAACCAAAACGACGACGACGATGACGACGATGG 360
QY 626 CTCGACACTTC-----TCCCGCAAGGAATGATCCGATGGGGCTATTC 670
Db 361 CAATTCGCAACATACAGCAATTCGGTTGCGCAAGGAATGTTCCCGTGTGGGCCATCC 420
QY 671 CATCAACGCAATGATTCGAGCGTCCGAGCTTCTCTGATTCACAAATCGTGGTC 730
Db 421 CTTCAACGCGCTGTTCCGGCTGAGGAGCTTTTGTGGTCTCTCAACGCGGCTGCT 480
QY 731 CGTGAATCAGCTCAGTTAT 752
Db 481 TTCAGCATCAACCTCAGTTTTT 502

RESULT 8

US-10-425-114-14614
; Sequence 14614, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 14614
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB23-065-D10_FLI
US-10-425-114-14614

Query Match 14.7%; Score 157.8; DB 13; Length 1176;
Best Local Similarity 75.9%; Pred. No. 1.5e-43;
Matches 195; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 195 GACAGGACCAACCATTTGAAGAGAGCTTCGACTAAAGACCGCTCACACGAAGTTGAAGGAAG 254
Db 278 GACTAAACCGGCTCCGAGAGACCGACTTCTTAAGACCGCTCACACGAAGTAGAAGCAG 337
QY 255 AGGAGAGAGGATACGATGCTCCGACGCTGCGGCTAGGATTTTCAATTAACCTCGAGA 314
Db 338 AGGTCGGAGGATCCGAATGCCGCGGGTTGCGCTGCTCGGGTCTTTCAATTGACCCGTGA 397
QY 315 GTTAGTTCACAAATCCGAGCGGGAACGATTCGGTGGTTGTTGGAGAACGCTGAGCCGGC 374
Db 398 ACTTGTACAAATCCGAGCGGGAACGATACGCTGGTTATTGGACGAGCTGAACCGGC 457
QY 375 GATTATAGCGGACCGGTACGGAACCGTTCCCGCATCGCCATGTCGTTAAACGGAAC 434
Db 458 GATAATTGAAGCAACCGGAACCGGAACTGTACCGGCTATTGCTGATTCGTTAAACGGAAC 517
QY 435 CTTAAAAATCCGACGA 451
Db 518 TTTAAAAATCCGACGA 534

RESULT 9

US-10-424-599-43464
; Sequence 43464, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 43464
; LENGTH: 1113
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1113)
; OTHER INFORMATION: unsure at all n locations

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FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_139247C.1
US-10-424-599-43464

Query Match      13.6%; Score 145.2; DB 13; Length 1113;
Best Local Similarity 64.8%; Pred. No. 3.8e-39;
Matches 232; Conservative 0; Mismatches 123; Indels 3; Gaps 1;

QY 221 CGACTAAGACCGTCACAGAGTTTGAAGAGAGGAGGAGATACGGATGCTGCCA 280
Db 635 CGTGAAGAGTCCGCACACAGAGGTGGAGGTCTGCGCGGAGAAATCAGGATCGCGGA 694
QY 281 CGTGTGGGTAGGATTTTCAATTAATCTCAGAGTTAGTTCACAAATCCGACGCGAAA 340
Db 695 CATCGCGGCGAGATCTTCAGCTGACGCGGAACTGGACACAAAGTCCGAGCGGAAA 754
QY 341 CGATTTCGGTGTGTTGGAGAACGCTGAGCGCGGATATAGCCGCCACGGTACGGAA 400
Db 755 CAATCCGGTGTCTGAGCAGCTGAGCGCGCAATCATCGAGGCCACCGCGCACCGCA 814
QY 401 CGGTTCGCGCATCGCATGTCGGTTAAACGAACTTAAATAATCCGACGACGACGACG 460
Db 815 CCATCCGCGCATCGCGTCTCGGTGCGGCGCACCTCAAGTTCGGACATCTCGGAG 874
QY 461 CTGATTCTGATATGGGTGAAATCTGATGAAGAGAAACGTAACGACCTTTCTAACAGTG 520
Db 875 CAAGACCGAGGAGAGTTGACACTCCGAAAGAGGAGGAGGAGCATCAACACGCG 934
QY 521 AGTATATAGACATAAGCG--ACGCGGTTTCACTTCTCGGTTTACCTCAATTGC 575
Db 935 AATTCAATCGAGTGAACGAAACACAGGTTTCTGTCTTCTTCAGGGTGGCAACCAATCGC 992

RESULT 10
US-10-424-599-63594
; Sequence 63594, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 63594
; LENGTH: 1594
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_28439C.1
US-10-424-599-63594

Query Match      12.9%; Score 138; DB 13; Length 1594;
Best Local Similarity 64.6%; Pred. No. 1.6e-36;
Matches 248; Conservative 0; Mismatches 115; Indels 21; Gaps 2;

QY 211 AAGAGAGCTTCGACTAAGACCGTCACAGAGAGTTGAAGAGAGGAGGAGATACGG 270
Db 369 AAGCGCTCTCCACAGAGACCGCACACAAAGTGAAGAGGCGGCGCGGAGATCCGA 428
QY 271 ATGCTGCCACGTGTGCGGTAGGATTTTCAATTAATCTCAGAGAGTTAGTTCACAAATCC 330
Db 429 ATACCGGCACCTGCGCGCGGATCTTCCAGCTACCCGAGAGCTCGGCCACAGTCC 488
QY 331 GACGCGGAAACGATTTCGGTGGTTTGGAGAACGCTGACCGCGGATATAGCCGCGACG 390
Db 489 GACGCGGAGACCGTTCGGTGGTCTCTGGAGACGCGCGGCGGATCATCGAGGCCACC 548
QY 391 GGTACGGGAACGGTTCGCCCATTCGCCATGTGCGTTAACGGAACCTTAAATAATCCGAGC 450
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Db 549 GGCACCGGCACAGTTCGGCCATCGCGGTCTCCGTGCGCGCGGCTCAAAATCCCAACC 608
QY 451 AC-----GACGAACGCTGATTCTGATATGGGTGAAAAATCTGATGAAGAGAAACGT 501
Db 609 ACTCATCAACTCTAACGAGGAGCGCGCGCGCGCTCTCCACCAAGAGCGG 668
QY 502 AAACGACCTTTCTAACAGTGAAGT-----ATATAGACATAAGGAGCGCGCTTCA 549
Db 669 AAAGCCCTCTAACAGCGAGTTCGTGACATAAACATAAAACGACGCGCGCTTCG 728
QY 550 GTTCTCTCCGTTTAGCTCCAATT 573
Db 729 CAGTCGTCGCGTCTGCGCCCGGTT 752

RESULT 11
US-10-425-114-14605
; Sequence 14605, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 14605
; LENGTH: 1519
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB23-047-E8_FLI
US-10-425-114-14605

Query Match      12.0%; Score 129; DB 13; Length 1519;
Best Local Similarity 71.0%; Pred. No. 2.1e-33;
Matches 171; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 189 GTCTTCGACAGGACCAACCATTTGAAGAGCTTCGACTAAAGACCGTCACACGAGTTGA 248
Db 68 GGCAGCTAAAGAGCCACCGTTGAACGAGCGTTCGACGAAAGACCGACACACGAAAGTAGA 127
QY 249 AGGAAGAGGAGAGATACGATGCTGCCACGCTGCGGGTAGGATTTTCAATTAC 308
Db 128 CGGAAGAGGAGGAGATAAGGATCCGCGCGTTATGTGACGTAGGGTTTTTCAGCTAAC 187
QY 309 TCGAGAGTTAGTGTCAAAATCCGAGCGCAACGATTCGTTGTTGTGGAGAACGCTGA 368
Db 188 GCGAGAGCTAGTGTATAAATCCGACGTTGAGACATAGATGGCTTCTTCAACAGCTGA 247
QY 369 GCGCGCGATTATAGCGCCACGCGGTACGGAACCGGTTCCGCCATGCGCATGCGGTTAA 428
Db 248 ACCATCTGTAAATCGCGCCACCGGAACCAATCCCGGGAATTTCACTTCTTTAAA 307
QY 429 C 429
Db 308 C 308

RESULT 12
US-09-934-455-169
; Sequence 169, Application US/09934455
; Publication No. US20030121070A1
; GENERAL INFORMATION:
; APPLICANT: Adam, Luc
; APPLICANT: Creelman, Robert
```

APPLICANT: Dubell, Arnold
APPLICANT: Heard, Jacqueline
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Keddle, James
APPLICANT: Pilgrim, Marsha
APPLICANT: Ratcliffe, Oliver
APPLICANT: Reuber, Lynne
APPLICANT: Riechmann, Jose Luis
APPLICANT: Yu, Guo-Liang
APPLICANT: Pineda, Omlira
TITLE OF INVENTION: Genes for Modifying Plant Traits IV
CURRENT APPLICATION NUMBER: US/09/934,455
CURRENT FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/227439
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: MBI-0022
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: MBI-0023
PRIOR FILING DATE: 2001-04-17
NUMBER OF SEQ ID NOS: 516
SOFTWARE: PatentIn version 3.1
SEQ ID NO 169
LENGTH: 1728
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: CDS
LOCATION: (106)...(1575)
OTHER INFORMATION: G1064
US-09-934-455-169

Query Match 12.0%; Score 129; DB 10; Length 1728;
Best Local Similarity 71.0%; Pred. No. 2.3e-33;
Matches 171; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 189 GTCTTCGACGAGCACCACCAATTGAAGAGAGCTTCGACTAAAGACCGTCAACGAGGTGA 248
Db 420 GCGAGCTAAAGACCCACCGTTGAAACGAGCGTCGAGAAAGACCGACACACGAAAGTAGA 479
QY 249 AGGAAGAGGAGAGATACGATGCTCCACGTCGTGGGTAGGATTTTCAATTAAC 308
Db 480 CGGAAGAGGAGAGAGATAGGATGCGCGGTATGTGCGAGTAGGGTTTTTCAGCTAAC 539
QY 309 TCGAGAGTTAGTCTCAATCCGACGCGGAAACGATTCGGTGTGTTGAGAACGCTGA 368
Db 540 GCGAGAGCTAGTCTCAATCCGACGCGGTGAGACAATAGATGCTTCTTCAACAGCTGA 599
QY 369 GCCGCGGATTATAGCGGCACCGGTACGGAAACGGTTCCCGCATCGGCATGCGGTAA 428
Db 600 ACCATCTGTAATCGCGCCACCGGAACCGGAACAATCCCGGGAATTTCACTTCTTTAA 659
QY 429 C 429
Db 660 C 660

RESULT 13
US-10-225-068-165
Sequence 165, Application US/10225068
Publication No. US20030217383A1
GENERAL INFORMATION:
APPLICANT: Mendel Biotechnology, Inc.
APPLICANT: Reuber, T. Lynne
APPLICANT: Riechmann, Jose Luis
APPLICANT: Heard, Jacqueline E.
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Adam, Luc J.
APPLICANT: Dubell, Arnold T.
APPLICANT: Ratcliffe, Oliver
APPLICANT: Pineda, Omlira
APPLICANT: Yu, Guo-Liang
APPLICANT: Broun, Pierre E.

TITLE OF INVENTION: STRESS-RELATED POLYNUCLEOTIDES AND
TITLE OF INVENTION: POLYPEPTIDES IN PLANTS
FILE REFERENCE: S1442002040
CURRENT APPLICATION NUMBER: US/10/225,068
CURRENT FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/310,847
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/336,049
PRIOR FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/338,692
PRIOR FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: 10/171,468
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 246
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 165
LENGTH: 1728
TYPE: DNA
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: CDS
LOCATION: (106)...(1575)
US-10-225-068-165

Query Match 12.0%; Score 129; DB 16; Length 1728;
Best Local Similarity 71.0%; Pred. No. 2.3e-33;
Matches 171; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 189 GTCTTCGACGAGCACCACCAATTGAAGAGAGCTTCGACTAAAGACCGTCAACGAGGTGA 248
Db 420 GCGAGCTAAAGACCCACCGTTGAAACGAGCGTCGAGAAAGACCGACACACGAAAGTAGA 479
QY 249 AGGAAGAGGAGAGATACGATGCTCCACGTCGTGGGTAGGATTTTCAATTAAC 308
Db 480 CGGAAGAGGAGAGAGATAGGATGCGCGGTATGTGCGAGTAGGGTTTTTCAGCTAAC 539
QY 309 TCGAGAGTTAGTCTCAATCCGACGCGGAAACGATTCGGTGTGTTGAGAACGCTGA 368
Db 540 GCGAGAGCTAGTCTCAATCCGACGCGGTGAGACAATAGATGCTTCTTCAACAGCTGA 599
QY 369 GCCGCGGATTATAGCGGCACCGGTACGGAAACGGTTCCCGCATCGGCATGCGGTAA 428
Db 600 ACCATCTGTAATCGCGCCACCGGAACCGGAACAATCCCGGGAATTTCACTTCTTTAA 659
QY 429 C 429
Db 660 C 660

RESULT 14
US-10-374-780A-219
Sequence 219, Application US/10374780A
Publication No. US20040019927A1
GENERAL INFORMATION:
APPLICANT: Sherman, Bradley K
APPLICANT: Riechmann, Jose Luis
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Heard, Jacqueline E
APPLICANT: Haake, Volker
APPLICANT: Creelman, Robert A
APPLICANT: Ratcliffe, Oliver
APPLICANT: Adam, Luc J
APPLICANT: Reuber, T. Lynne
APPLICANT: Keddle, James
APPLICANT: Broun, Pierre E
APPLICANT: Pilgrim, Marsha L
APPLICANT: Dubell, III, Arnold T
APPLICANT: Pineda, Omlira
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
FILE REFERENCE: MBI-0047 CIP
CURRENT APPLICATION NUMBER: US/10/374,780A
CURRENT FILING DATE: 2003-02-25

;; PRIOR APPLICATION NUMBER: 09/837,944
;; PRIOR FILING DATE: 2001-04-18
;; PRIOR APPLICATION NUMBER: 60/310,847
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: 09/934,455
;; PRIOR FILING DATE: 2001-08-22
;; PRIOR APPLICATION NUMBER: 60/336,049
;; PRIOR FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/338,692
;; PRIOR FILING DATE: 2001-12-11
;; PRIOR APPLICATION NUMBER: 10/171,468
;; PRIOR FILING DATE: 2002-06-14
;; PRIOR APPLICATION NUMBER: 10/225,066
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 10/225,067
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 10/225,068
;; PRIOR FILING DATE: 2002-08-09
;; NUMBER OF SEQ ID NOS: 2906
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 219
;; LENGTH: 1728
;; TYPE: DNA
;; ORGANISM: Arabidopsis thaliana
;; FEATURE:
;; OTHER INFORMATION: G1064
US-10-374-780A-219

Query Match 12.0%; Score 129; DB 16; Length 1728;
Best Local Similarity 71.0%; Pred. No. 2.3e-33;
Matches 171; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

Qy 189 GTCTTCGACGAGCACCATTGAAGAGAGCTTCGACTAAAGACCGTACACGAAGTTGA 248
Db 420 GGCAGCTAAAAGCACCCTGTAACGAGCGTTCGACGAAGACCGACACGAAAGTGA 479

Qy 249 AGGAAGAGGAGAGGATACGCGTTCGCTGCGGCTAGGATTTTCAATTAAAC 308
Db 480 CGGAAGAGGAGGAGAAATGAAGATCGCGGCTTATGTGCAGTAGGGTTTTTCAGCTAAC 539

Qy 309 TCGAGAGTAGGTCAAAATCGGCGGGAACGATTGCTGGTGTGTTGGAGAACGCTGA 368
Db 540 GCGAGAGCTAGGTCAAAATCGGCGGCTGAGACATAGAGTGGCTTCTTCAACAAGCTGA 599

Qy 369 GCGCGGATTTAGCGCGGACGCGTTCGCGCATCGGCATGTCGGTTAA 428
Db 600 ACCATCTGTATTCGCGCGCACCGGAACCGGAACCGGAACCGGAATTCCTCTTTAA 659

Qy 429 C 429
Db 660 C 660

RESULT 15
US-10-374-780A-1390
; Sequence 1390, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Riemann, Jose Luis
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Heard, Jacqueline E
; APPLICANT: Haake, Volker
; APPLICANT: Creelman, Robert A
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Adam, Luc J
; APPLICANT: Reuber, T. Lynne
; APPLICANT: Keddle, James
; APPLICANT: Brown, Pierre E
; APPLICANT: Pilgrim, Marsha L
; APPLICANT: Dubell III, Arnold T
; APPLICANT: Pineda, Omaira
; APPLICANT: Yu, Guo-Liang

;; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
;; FILE REFERENCE: MBI-0047 CIP
;; CURRENT APPLICATION NUMBER: US/10/374,780A
;; CURRENT FILING DATE: 2003-02-25
;; PRIOR APPLICATION NUMBER: 09/837,944
;; PRIOR FILING DATE: 2001-04-18
;; PRIOR APPLICATION NUMBER: 60/310,847
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: 09/934,455
;; PRIOR FILING DATE: 2001-08-22
;; PRIOR APPLICATION NUMBER: 60/336,049
;; PRIOR FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/338,692
;; PRIOR FILING DATE: 2001-12-11
;; PRIOR APPLICATION NUMBER: 10/171,468
;; PRIOR FILING DATE: 2002-06-14
;; PRIOR APPLICATION NUMBER: 10/225,066
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 10/225,067
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 10/225,068
;; PRIOR FILING DATE: 2002-08-09
;; NUMBER OF SEQ ID NOS: 2906
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 1390
;; LENGTH: 671
;; TYPE: DNA
;; ORGANISM: Lycopersicon esculentum
;; FEATURE:
;; OTHER INFORMATION: Predicted polypeptide sequence is orthologous to G1064
US-10-374-780A-1390

Query Match 11.9%; Score 127.4; DB 16; Length 671;
Best Local Similarity 68.5%; Pred. No. 4.6e-33;
Matches 176; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

Qy 182 CTCACCGCTTCGACGAGCACCATTGAAGAGAGCTTCGACTAAAGACCGTACACGA 241
Db 272 CTACTGAGACTGCTAAAAGCCGAGCTCCCAAGAGAACTTCCACTAAAGCCGACACTA 331

Qy 242 AGGTTGAAGGAGGAGGAGGATACGATGCTTCGCCACGTTGTCGGCTAGGATTTTC 301
Db 332 AGGTTGATGGCGGTGGCAGAGTATACGTATGCGCGCCCTTTGTCTGCTAGGGTTTC 391

Qy 302 AATTAATCTGAGAGTTAGGTCAAAATCGGCGGGAACGATTGCGTGTGTTGGAGA 361
Db 392 AGCTCACTCGAGAACTCGGTCAAAATCGATGGTGAACCACTCGAATGGCTTCTTCAAC 451

Qy 362 ACGCTGAGCGCGGATTATAGCGCGGATACGGAACGTTCCCGCATCGCATGT 421
Db 452 AAGCTGAACCTGCAAGTTAGTCTACGGAACAGGTACAAATCCGGGAATTTTCAGT 511

Qy 422 CGGTTAAGCGAACCTTA 438
Db 512 CACTCAACATTTCAATTA 528

Search completed: August 7, 2004, 10:17:47
Job time : 514.895 secs

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OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 06:55:53 ; Search time 82.6245 Seconds
(without alignments)
7193.420 Million cell updates/sec

Title: US-09-938-842A-1034

Perfect score: 1071

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Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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- 2: /cgn2_6/ptodata/2/ina/5B COMB.seq.*
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- 4: /cgn2_6/ptodata/2/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/2/ina/PTUS COMB.seq.*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	1.8	2556	4	US-09-489-039A-6112
2	19	1.8	34094	4	US-09-292-034-1
3	18	1.7	1527	4	US-09-489-039A-716
C 4	18	1.7	4261	4	US-09-976-594-3
5	18	1.7	162450	4	US-09-345-882-1
C 6	18	1.7	1664976	4	US-08-916-421B-1
7	17	1.6	447	4	US-09-328-352-186
8	17	1.6	516	1	US-08-510-878-2
9	17	1.6	748	1	US-08-510-878-3
10	17	1.6	864	4	US-09-976-594-1054
C 11	17	1.6	867	4	US-09-252-991A-6878
C 12	17	1.6	882	4	US-09-252-991A-6792
C 13	17	1.6	900	4	US-09-050-739-59
C 14	17	1.6	1251	4	US-09-614-912-81
C 15	17	1.6	1353	2	US-08-611-280-1
C 16	17	1.6	1353	3	US-09-195-940-1
C 17	17	1.6	1353	4	US-09-562-466-1
18	17	1.6	1636	4	US-09-614-912-69
19	17	1.6	1758	4	US-09-489-039A-3108
C 20	17	1.6	1960	4	US-09-553-867A-42
C 21	17	1.6	2755	4	US-08-833-381-1426
C 22	17	1.6	3758	3	US-08-323-477-1
C 23	17	1.6	12537	2	US-08-611-280-4
C 24	17	1.6	12537	3	US-09-195-940-4
C 25	17	1.6	12537	4	US-09-562-466-4
26	17	1.6	1664976	4	US-08-916-421B-1
27	17	1.6	4403765	3	US-09-103-840A-2

28	17	1.6	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 29	16	1.5	268	3	US-08-444-818-21	Sequence 21, Appli
C 30	16	1.5	306	1	US-08-411-913-8	Sequence 8, Appli
C 31	16	1.5	307	3	US-08-444-818-143	Sequence 143, App
32	16	1.5	417	4	US-09-621-976-14125	Sequence 14125, A
33	16	1.5	438	4	US-09-256-000-8	Sequence 8, Appli
C 34	16	1.5	477	1	US-07-853-985A-7	Sequence 7, Appli
C 35	16	1.5	477	1	US-07-681-703B-7	Sequence 7, Appli
C 36	16	1.5	477	1	US-08-184-236-7	Sequence 7, Appli
C 37	16	1.5	477	2	US-08-407-410B-7	Sequence 7, Appli
C 38	16	1.5	477	2	US-08-485-500-7	Sequence 7, Appli
C 39	16	1.5	477	5	PCT-US91-02370-7	Sequence 7, Appli
C 40	16	1.5	477	5	PCT-US94-04174-7	Sequence 7, Appli
C 41	16	1.5	489	4	US-09-328-352-1768	Sequence 1768, Ap
42	16	1.5	493	4	US-09-364-206-5	Sequence 5, Appli
43	16	1.5	557	4	US-09-364-206-6	Sequence 6, Appli
C 44	16	1.5	558	1	US-07-853-985A-9	Sequence 9, Appli
C 45	16	1.5	558	1	US-07-681-703B-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1

US-09-489-039A-6112
; Sequence 6112, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 6112
; LENGTH: 2556
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-6112

Query Match 1.8%; Score 19; DB 4; Length 2556;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	180	AGCTCCACCGTCTTCGACA	198
Db	850	AGCTCCACCGTCTTCGACA	868

RESULT 2

US-09-292-034-1
; Sequence 1, Application US/09292034
; Patent No. 6492343
; GENERAL INFORMATION:
; APPLICANT: Reddy, P. Seshidhar
; APPLICANT: Tikoo, Suresh
; APPLICANT: Bablu, Lorne
; TITLE OF INVENTION: PORCINE ADENOVIRUS TYPE 3 GENOME
; FILE REFERENCE: 29102002400
; CURRENT APPLICATION NUMBER: US/09/292,034
; CURRENT FILING DATE: 1999-04-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 34094
; TYPE: DNA
; ORGANISM: Porcine Adenovirus Type 3
; FEATURE:
US-09-292-034-1

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Query Match      1.8%; Score 19; DB 4; Length 34094;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      850 AGCAGCGGCTTGTATCCG 868
Db      21527 AGCAGCGGCTTGTATCCG 21545

RESULT 3
US-09-489-039A-716
; Sequence 716, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 716
; LENGTH: 1527
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-716

Query Match      1.7%; Score 18; DB 4; Length 1527;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      143 AGGCGGAGCGGTGATGC 160
Db      965 AGGCGGAGCGGTGATGC 982

RESULT 4
US-09-976-594-3/c
; Sequence 3, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 4261
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6673549 1863336CB1
US-09-976-594-3

Query Match      1.7%; Score 18; DB 4; Length 4261;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      603 AGCTCTGGCATCATCCAC 620
Db      3322 AGCTCTGGCATCATCCAC 3305

RESULT 5
US-09-345-882-1
```

```
; Sequence 1, Application US/09345882
; Patent No. 6399373
; GENERAL INFORMATION:
; APPLICANT: Bouqueleret, Lydie
; TITLE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING PROTEIN (RBP-7)
; FILE REFERENCE: GENSET.031A
; CURRENT APPLICATION NUMBER: US/09/345,882
; CURRENT FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: US 60/091,315
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/111,909
; PRIOR FILING DATE: 1998-12-10
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: Patent.pm
; SEQ ID NO 1
; LENGTH: 162450
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 72794
; OTHER INFORMATION: 5-124-273 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 88073
; OTHER INFORMATION: 5-127-261 : polymorphic base A or C
; FEATURE:
; NAME/KEY: allele
; LOCATION: 90842
; OTHER INFORMATION: 99-1437-325 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 93714
; OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT
; FEATURE:
; NAME/KEY: allele
; LOCATION: 97122
; OTHER INFORMATION: 99-1442-224 : polymorphic base G or T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 97152
; OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 99098
; OTHER INFORMATION: 5-130-257 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 99117
; OTHER INFORMATION: 5-130-276 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 103806
; OTHER INFORMATION: 5-131-395 : polymorphic base A or T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 106940
; OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108106
; OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108149
; OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108308
; OTHER INFORMATION: 5-135-357 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
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LOCATION: 108471
OTHER INFORMATION: 5-136-174 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 134134
OTHER INFORMATION: 5-140-120 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 134362
OTHER INFORMATION: 5-140-348 : polymorphic base insertion of A
FEATURE:
NAME/KEY: allele
LOCATION: 134374
OTHER INFORMATION: 5-140-361 : polymorphic base insertion of CA
FEATURE:
NAME/KEY: allele
LOCATION: 146328
OTHER INFORMATION: 5-143-84 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 146345
OTHER INFORMATION: 5-143-101 : polymorphic base A or C
FEATURE:
NAME/KEY: allele
LOCATION: 150329
OTHER INFORMATION: 5-145-24 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 160031
OTHER INFORMATION: 5-148-352 : polymorphic base G or T
FEATURE:
NAME/KEY: allele
LOCATION: 72771..72817
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID30
FEATURE:
NAME/KEY: allele
LOCATION: 72771..72817
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID51
FEATURE:
NAME/KEY: allele
LOCATION: 88050..88096
OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID31
FEATURE:
NAME/KEY: allele
LOCATION: 88050..88096
OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID52
FEATURE:
NAME/KEY: allele
LOCATION: 90819..90865
OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID49
FEATURE:
NAME/KEY: allele
LOCATION: 90819..90865
OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID70
FEATURE:
NAME/KEY: allele
LOCATION: 93690..93736
OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID32
FEATURE:
NAME/KEY: allele
LOCATION: 93690..93736
OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID53
FEATURE:
NAME/KEY: allele
LOCATION: 97099..97145
OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID50
FEATURE:
NAME/KEY: allele
LOCATION: 97099..97145
OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID71
FEATURE:
NAME/KEY: allele
LOCATION: 97130..97177
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OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID33
FEATURE:
NAME/KEY: allele
LOCATION: 97130..97177
OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID54
FEATURE:
NAME/KEY: allele
LOCATION: 99075..99121
OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID34
FEATURE:
NAME/KEY: allele
LOCATION: 99075..99121
OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID55
FEATURE:
NAME/KEY: allele
LOCATION: 99094..99140
OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID35
FEATURE:
NAME/KEY: allele
LOCATION: 99094..99140
OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID56
FEATURE:
NAME/KEY: allele
LOCATION: 103783..103828
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID36
FEATURE:
NAME/KEY: allele
LOCATION: 103783..103828
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57
FEATURE:
NAME/KEY: allele
LOCATION: 106918..106966
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID37
FEATURE:
NAME/KEY: allele
LOCATION: 106918..106966
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID58
FEATURE:
NAME/KEY: allele
LOCATION: 108084..108130
OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID38
FEATURE:
NAME/KEY: allele
LOCATION: 108084..108130
OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID59
FEATURE:
NAME/KEY: allele
LOCATION: 108127..108177
OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID39
FEATURE:
NAME/KEY: allele
LOCATION: 108127..108177
OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID60
FEATURE:
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Query Match 1.7%; Score 18; DB 4; Length 162450;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 695 TCGGAGCTTTCTTCTTGA 712
Db 35413 TCGGAGCTTTCTTCTTGA 35430
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RESULT 6
US-08-916-421B-1/c
; Sequence 1, Application US/08916421B
; Patent No. 6503729
; GENERAL INFORMATION:
; APPLICANT: Bult et al.
; TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus
; Patent No. 6503729
; TITLE OF INVENTION: jannaschii
```

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FILE REFERENCE: PB275
CURRENT APPLICATION NUMBER: US/08/916,421B
CURRENT FILING DATE: 1997-08-22
PRIOR APPLICATION NUMBER: US 60/024,428
PRIOR FILING DATE: 1996-08-22
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1664976
TYPE: DNA
ORGANISM: Methanococcus jannaschii
FEATURE:
NAME/KEY: misc feature
LOCATION: (28222)..(28222)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (28257)..(28258)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (84773)..(84773)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (84808)..(84808)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (84812)..(84812)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (98120)..(98120)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (98159)..(98159)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (98239)..(98239)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (98266)..(98266)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (98343)..(98343)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (103998)..(103998)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (148948)..(148948)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (163385)..(163385)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (191989)..(191989)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (191995)..(191995)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (231980)..(231980)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (234187)..(234187)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (234220)..(234220)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (234814)..(234814)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (309398)..(309398)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1349473)..(1349473)
LOCATION: (309418)..(309418)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (312837)..(312837)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (312993)..(312993)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (319226)..(319226)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (559167)..(559167)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (559241)..(559241)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (600992)..(600992)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (622708)..(622708)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (657081)..(657081)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (657203)..(657203)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (674435)..(674435)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (682442)..(682442)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (713652)..(713652)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (741684)..(741684)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (779455)..(779455)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (779676)..(779676)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (855539)..(855539)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (871619)..(871619)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1084830)..(1084830)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1096846)..(1096846)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1119881)..(1119881)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1130881)..(1130881)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1310988)..(1310988)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1313224)..(1313224)
OTHER INFORMATION: n equals a, t, c, or g
NAME/KEY: misc feature
LOCATION: (1349473)..(1349473)
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; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1349491)..(1349491)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1470091)..(1470091)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1569020)..(1569020)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1602912)..(1602912)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1603734)..(1603734)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1637998)..(1637998)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (1664854)..(1664855)
; OTHER INFORMATION: n equals a, t, c, or g
US-09-916-421B-1

Query Match 1.7%; Score 18; DB 4; Length 1664976;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 170 CAATGCTTTAGTCCAC 187
|||||
DB 1522815 CAATGCTTTAGTCCAC 1522798

RESULT 7
US-09-328-352-186
; Sequence 186, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 186
; LENGTH: 447
; TYPE: DNA
; ORGANISM: Acinetobacter baumannii
US-09-328-352-186

Query Match 1.6%; Score 17; DB 4; Length 447;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 951 TTCATCGTCAATTGCAA 967
|||||
DB 326 TTCATCGTCAATTGCAA 342

RESULT 8
US-08-510-878-2
; Sequence 2, Application US/08510878
; Patent No. 5776771
; GENERAL INFORMATION:
; APPLICANT: Yu, Fujio
; APPLICANT: Kato, Mami
; TITLE OF INVENTION: A KANAMYCIN RESISTANCE GENE DERIVED FROM
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch and Birch
; STREET: P.O. Box 747

; CITY: Falls Church
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/510,878
; FILING DATE: 03-AUG-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiner, Marc S
; REGISTRATION NUMBER: 32,181
; REFERENCE/DOCKET NUMBER: 1254-121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 516 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-510-878-2

Query Match 1.6%; Score 17; DB 1; Length 516;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 439 AAAATCCCGACGACGAC 455
|||||
DB 120 AAAATCCCGACGACGAC 136

RESULT 9
US-08-510-878-3
; Sequence 3, Application US/08510878
; Patent No. 5776771
; GENERAL INFORMATION:
; APPLICANT: Yu, Fujio
; APPLICANT: Kato, Mami
; TITLE OF INVENTION: A KANAMYCIN RESISTANCE GENE DERIVED FROM
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch and Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/510,878
; FILING DATE: 03-AUG-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiner, Marc S
; REGISTRATION NUMBER: 32,181
; REFERENCE/DOCKET NUMBER: 1254-121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050

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; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 748 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
; US-08-510-878-3

Query Match      1.6%; Score 17; DB 1; Length 748;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 439 AAAATCCGAGCAGCAGC 455
Db 284 AAAATCCGAGCAGCAGC 300

RESULT 10
US-09-976-594-1054
; Sequence 1054, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 1054
; LENGTH: 864
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 246727.11
; NAME/KEY: unsure
; LOCATION: 847, 856
; OTHER INFORMATION: a, t, c, g, or other
; US-09-976-594-1054

Query Match      1.6%; Score 17; DB 4; Length 864;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 250 GGAAGAGGAGGAGGAT 266
Db 166 GGAAGAGGAGGAGGAT 182

RESULT 11
US-09-252-991A-6878
; Sequence 6878, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 6878

; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 867
;   TYPE: DNA
;   ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-6878

Query Match      1.6%; Score 17; DB 4; Length 867;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 371 CGCGATTATAGCGCC 387
Db 50 CGCGATTATAGCGCC 66

RESULT 12
US-09-252-991A-6792/c
; Sequence 6792, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 6792
; LENGTH: 882
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-6792

Query Match      1.6%; Score 17; DB 4; Length 882;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 371 CGCGATTATAGCGCC 387
Db 82 CGCGATTATAGCGCC 66

RESULT 13
US-09-050-739-59/c
; Sequence 59, Application US/09050739
; Patent No. 6641814
; GENERAL INFORMATION:
; APPLICANT: ANDERSEN, Peter
; APPLICANT: NIELSEN, Rikke
; APPLICANT: OTTINGER, Thomas
; APPLICANT: RASMUSSEN, Peter Birk
; APPLICANT: ROSENKRANDS, Ida
; APPLICANT: WELDINGH, Karin
; APPLICANT: FLORIO, Walter
; TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/050,739
; CURRENT FILING DATE: 1998-03-30
; EARLIER APPLICATION NUMBER: 0376/97
; EARLIER FILING DATE: 1997-04-02
; EARLIER APPLICATION NUMBER: 1277/97
; EARLIER FILING DATE: 1997-11-10
; EARLIER APPLICATION NUMBER: 60/044,624
; EARLIER FILING DATE: 1997-04-18
; EARLIER APPLICATION NUMBER: 60/070,488
; EARLIER FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59

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; LENGTH: 900
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
US-09-050-739-59

Query Match          1.6%; Score 17; DB 4; Length 900;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 GCGGAGCCGGTGATGC 160
      |||
Db 752 GCGGAGCCGGTGATGC 736

RESULT 14
US-09-614-912-81
; Sequence 81, Application US/09614912
; Patent No. 6677502
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Rafalski, Antoni
; APPLICANT: Orozco, Buddy
; APPLICANT: Miao, Gou-Hau
; APPLICANT: Ramodu, Omolayo O.
; APPLICANT: Lee, Jian Ming
; APPLICANT: Sakai, Hajime
; APPLICANT: Weng, Zude
; APPLICANT: Caimi, Perry G
; APPLICANT: Anderson, Shawn
; TITLE OF INVENTION: Plant Metabolism Genes
; FILE REFERENCE: BB1378 US NA
; CURRENT APPLICATION NUMBER: US/09/614,912
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: 60/143,401
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,412
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/146,650
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/170,906
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: 60/172,959
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/172,946
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 81
; LENGTH: 1251
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-614-912-81

Query Match          1.6%; Score 17; DB 4; Length 1251;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 433 GAAGGAGAGGGGAGAG 449

RESULT 15
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; Sequence 1, Application US/08611280
; Patent No. 5891666
; GENERAL INFORMATION:
; APPLICANT: Matsuyama, Toshifumi
; APPLICANT: Grossman, Alex
; APPLICANT: Richardson, Christopher D.
; TITLE OF INVENTION: NOVEL GENES ENCODING LSIRF POLYPEPTIDES
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
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; ADDRESSEE: Amgen Canada Inc.
; STREET: 6733 Mississauga Road, Suite 303
; CITY: Mississauga
; STATE: Ontario
; COUNTRY: Canada
; ZIP: L5N 6J8
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/611,280
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Oleski, Nancy A.
; REGISTRATION NUMBER: 34,688
; REFERENCE/DOCKET NUMBER: A-338A
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1353 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-611-280-1

Query Match          1.6%; Score 17; DB 2; Length 1353;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 930 GTGGCTCAGCAACTTCT 914

Search completed: August 7, 2004, 13:07:27
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 09:55:58 ; Search time 513.675 Seconds
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10222.935 Million cell updates/sec

Title: US-09-938-842A-1034

Perfect score: 1071

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Scoring table:
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Gapop 60.0 , Gapext 60.0

Searched: 3222919 seqs, 2451570024 residues

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Minimum DB seq length: 0

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Database : Published Applications NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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C 4	286	26.7	453	9	US-09-770-444-615
5	185	17.3	185	9	US-09-770-696-257
6	25	2.3	704	13	US-10-225-066A-1049
7	25	2.3	704	16	US-10-374-780A-2689
8	23	2.1	390	12	US-09-732-627A-4287
9	23	2.1	587	17	US-10-021-323-15482
10	23	2.1	1604	13	US-10-412-699B-551
11	23	2.1	1604	15	US-10-295-403-147
12	20	1.9	442	13	US-10-424-599-59834
C 13	20	1.9	453	13	US-10-276-774-292
C 14	20	1.9	1263	16	US-10-369-493-37704

C 15	20	1.9	1756	13	US-10-424-599-93501	Sequence 93501, A
C 16	20	1.9	94810	12	US-10-052-482-22	Sequence 22, Appl
C 17	20	1.9	125534	13	US-10-087-192-1678	Sequence 1678, Ap
18	19	1.8	926	13	US-10-425-114-2989	Sequence 2989, Ap
19	19	1.8	1065	13	US-10-425-114-3219	Sequence 3219, Ap
20	19	1.8	1081	13	US-10-425-114-15522	Sequence 15522, A
21	19	1.8	1116	13	US-10-425-114-15510	Sequence 15510, A
22	19	1.8	1176	13	US-10-425-114-14614	Sequence 14614, A
23	19	1.8	2727	17	US-10-437-963-39921	Sequence 39921, A
24	19	1.8	4459	17	US-10-437-963-53427	Sequence 53427, A
25	19	1.8	34094	10	US-09-963-038A-1	Sequence 1, Appli
26	19	1.8	34094	15	US-10-199-550-1	Sequence 1, Appli
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C 29	19	1.8	148815	13	US-10-087-192-1873	Sequence 4716, Ap
C 30	18	1.7	223	17	US-10-437-963-61567	Sequence 61567, A
C 31	18	1.7	277	9	US-09-294-093B-4716	Sequence 4716, Ap
C 32	18	1.7	364	10	US-09-918-995-30316	Sequence 30316, A
C 33	18	1.7	377	10	US-09-918-995-34549	Sequence 34549, A
C 34	18	1.7	417	12	US-09-987-899-6794	Sequence 6794, Ap
C 35	18	1.7	424	9	US-09-777-564-1604	Sequence 1604, Ap
C 36	18	1.7	424	15	US-10-015-219-1604	Sequence 1604, Ap
C 37	18	1.7	432	9	US-09-983-965-5485	Sequence 5485, Ap
C 38	18	1.7	475	9	US-09-770-444-64	Sequence 64, Appl
C 39	18	1.7	572	13	US-10-027-632-216038	Sequence 216038, A
C 40	18	1.7	572	16	US-10-027-632-216038	Sequence 216038, A
C 41	18	1.7	626	9	US-09-770-149-739	Sequence 739, App
C 42	18	1.7	892	13	US-10-282-122A-23563	Sequence 23563, A
C 43	18	1.7	1119	16	US-10-369-493-32488	Sequence 32488, A
C 44	18	1.7	1487	16	US-10-062-674-1944	Sequence 1944, Ap
C 45	18	1.7	1611	13	US-10-425-114-26371	Sequence 26371, A

ALIGNMENTS

RESULT 1
US-09-938-842A-1034
; Sequence 1034, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SAME, AND METHODS OF USE
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 1034
; LENGTH: 1071
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-1034

Query Match 100.0%; Score 1071; DB 9; Length 1071;
Best Local Similarity 100.0%; Pred.No. 0;
Matches 1071; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 ATGCGCAATTCAGAGCTTGAAGAGCTTCAGCGCAAGATCAAACTCTAAGACCGTT 60
QY 61 GATCTAACCATCATCAACGGCGTTCAGAAACCTCAAGACCTTCCAGTAAT 120

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104 121 GATCTAACCATCATACACGGCGTTCAGAAACGTCGAACTTCAAGACCTTTCCAGTAAT 120
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107 181 GCTCCACCGTCTTCGACAGACCACTTGAAGAGGCTTCGACTAAGACCGTCACAG 240
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109 241 AAGGTTCAAGAGGAGGAGGATACGATGCTGCTCCAGCTGTGCGGTAGGATTTT 300
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111 301 CAATTAATCTGAGAGTTAGGTCAAAATCCGACGGCGAAACGATTCGGTGTGTTGGAG 360
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113 361 AACGCTGAGCGCGGATTTATAGCGCCACGCGTACGGGACGTTCCCGCCATCGCCATG 420
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; Sequence 1034, Application US/09938842a
; Publication No. US20040009476a9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff

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; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 1034
; LENGTH: 1071
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-1034

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Query Match      100.0%; Score 1071; DB 11; Length 1071;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1071; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 GATCTAACCATCATCAACGGGTCAGAAACCTCGAAACCTTCAAGACCTTTCCAACTAAT 120

Qy 121 CCCACAGTGTCTCGAGCCCAAGCGGAGCGGTGATGCGGTCTGTTTCAATGCTTTA 180
Db 121 CCCACAGTGTCTCGAGCCCAAGCGGAGCGGTGATGCGGTCTGTTTCAATGCTTTA 180

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Db 181 GCTCCACCGTCTTCGACAGGACCAATTTGAAGAGGCTTCGACTAAGACCGTCACAG 240

Qy 241 AAGGTTGAAGAGGAGGAGGATACGATGCTGCTCCAGCTGTCGCGCTAGGATTTT 300
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Qy 421 TCGGTTAACGAAACCTTTAAATCCGACGACGACGACGACGACGACGACGACGAC 480
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RESULT 3
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; Sequence 502, Application US/09924035A
; Patent No. US20020142319A1
; GENERAL INFORMATION:
; APPLICANT: Grlach, Jrn
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: 2011US
; CURRENT APPLICATION NUMBER: US/09/924,035A
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: US 60/148,784
; PRIOR FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 900
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 502
; LENGTH: 460
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(460)
; OTHER INFORMATION: n = A,T,C or G
US-09-924-035A-502

Query Match 27.0%; Score 289; DB 9; Length 460;
Best Local Similarity 99.6%; Pred. No. 3.1e-147;
Matches 459; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
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QY 660 GTGGGCTATTCCATCAACGCAATGATTCGACGCTGAGCTTCTTCTTGATTCACCA 719
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QY 720 AATCGTGGTCCGTCGAATCAGCTCAGTTATAGCTTTTCCCGCGCGCTGCTTCGCC 779
Db 340 AATCGTGGTCCGTCGAATCAGCTCAGTTATAGCTTTTCCCGCGCGCGNG-ITCGCC 282
QY 780 GTCGCTTACGTCGCCGCTGTTCAACAGGCTTCACAGTGGCTAGACCACTCCTTTACA 839
Db 281 GTCGCTTACGTCGCCGCTGTTCAACAGGCTTCACAGTGGCTAGACCACTCCTTTACA 222
QY 840 AGTTGTTTCAAGCAGCGGCTTTGTATCCGTTTCAGAGCTTAGCGGTTTCAATTTATCAAG 899
Db 221 AGTTGTTTCAAGCAGCGGCTTTGTATCCGTTTCAGAGCTTAGCGGTTTCAATTTATCAAG 162

QY 900 AGCAGCTCGGTTATGGTCCGAGCTCAAGCTCAGCGGTAAACACCGGTAGTTATCGTC 959
Db 161 AGCAGCTCGGTTATGGTCCGAGCTCAAGCTCAGCGGTAAACACCGGTAGTTATCGTC 102
QY 960 AATTGCAACCAACGACGACGCTGAGAGCTTCTCCCTAGAGATATACGAGAAACA 1019
Db 101 AATTGCAACCAACGACGACGCTGAGAGCTTCTCCCTAGAGATATACGAGAAACA 42
QY 1020 AGAGCTTCCACGATTCATGAGCACCACCAACAGCAGCGGTAT 1060
Db 41 AGAGCTTCCACGATTCATGAGCACCACCAACAGCAGCGGTAT 1

RESULT 4
US-09-770-444-615/c
; Sequence 615, Application US/09770444
; Patent No. US20020023280A1
; GENERAL INFORMATION:
; APPLICANT: Grolach, Jörn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kriker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: 2027 (PARA-016PRV)
; CURRENT APPLICATION NUMBER: US/09/770,444
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,502
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 615
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(453)
; OTHER INFORMATION: n = A,T,C or G
US-09-770-444-615

Query Match 26.7%; Score 286; DB 9; Length 453;
Best Local Similarity 100.0%; Pred. No. 1.4e-145;
Matches 286; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 835 TTACAAGTTGTTTCAAGCAGCGGCTTTGTATCCGTTTTCAGAGCTTAGCGGTTTCAATTTA 894
Db 226 TTACAAGTTGTTTCAAGCAGCGGCTTTGTATCCGTTTTCAGAGCTTAGCGGTTTCAATTTA 167
QY 895 TCAAGAGCGAGCTCGGTTATGGTTCGAGCTCAAGCTCAGCGGTAAACACCGGTAGTTCA 954
Db 166 TCAAGAGCGAGCTCGGTTATGGTTCGAGCTCAAGCTCAGCGGTAAACACCGGTAGTTCA 107

Mon Aug 9 13:53:36 2004

us-09-938-842a-1034.oligo.rnpb

QY 955 TCGTCAATTGACACACACGACGACGCTGAGAGACTTCTCCCTAGAGATATACGAG 1014
Db 106 TCGTCAATTGACACACACGACGACGCTGAGAGACTTCTCCCTAGAGATATACGAG 47
QY 1015 AAACAAGAGCTTCCACGAGTTCATGAGCACCACACACGACGCTCAT 1060
Db 46 AAACAAGAGCTTCCACGAGTTCATGAGCACCACACACGACGCTCAT 1

RESULT 5

US-09-770-696-257
; Sequence 257, Application US/09770696
; Patent No. US20010044940A1

; GENERAL INFORMATION:
; APPLICANT: Gorlach, Jorn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kricker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurlan, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: 2031US (PARA-020PRV)
; CURRENT APPLICATION NUMBER: US/09/770,696
; PRIOR FILING DATE: 2001-01-26
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 911
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 257
; LENGTH: 185
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-696-257

Query Match 17.3%; Score 185; DB 9; Length 185;
Best Local Similarity 100.0%; Pred. No. 2.8e-90;
Matches 185; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 GCAAAGATCAAACTTAAGAGCGGTGATCTTAACCATCATCAACGGGTGAGAAACGTCG 94
Db 1 GCAAAGATCAAACTTAAGAGCGGTGATCTTAACCATCATCAACGGGTGAGAAACGTCG 60
QY 95 AAACCTCAAGACCTTCCAGTAAATCCACAGTCACTCCAGCCCAAGGCGGAGCCGG 154
Db 61 AAACCTCAAGACCTTCCAGTAAATCCACAGTCACTCCAGCCCAAGGCGGAGCCGG 120
QY 155 TGATGCCGTCGTTTCAATGTCTTTAGCTCCACCGTCTTCGACAGGACCAACATTGAAGA 214
Db 121 TGATGCCGTCGTTTCAATGTCTTTAGCTCCACCGTCTTCGACAGGACCAACATTGAAGA 180
QY 215 GAGCT 219
Db 181 GAGCT 185

RESULT 6
US-10-225-066A-1049
; Sequence 1049, Application US/10225066A
; Publication No. US20030226173A1

; GENERAL INFORMATION:
; APPLICANT: Mendel Biotechnology, Inc.
; APPLICANT: RATCLIFFE, Oliver
; APPLICANT: RIECHMANN, Jose Luis
; APPLICANT: ADAM, Luc J
; APPLICANT: DUBELL, Arnold T
; APPLICANT: HEARD, Jacqueline E
; APPLICANT: PILGRIM, Marsha L
; APPLICANT: JIANG, Cai-Zhong
; APPLICANT: REUBER, T. Lynne
; APPLICANT: CREELMAN, Robert A
; APPLICANT: PINEDA, Omlaira
; APPLICANT: YU, Guo-Liang
; APPLICANT: BROUN, Pierre E
; TITLE OF INVENTION: Yield-Related Polynucleotides and Polypeptides in Plants
; FILE REFERENCE: MBI0036-2 US
; CURRENT APPLICATION NUMBER: US/10/225,066A
; CURRENT FILING DATE: 2002-08-09
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/310,847
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/336,049
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,692
; PRIOR FILING DATE: 2001-12-11
; PRIOR APPLICATION NUMBER: 10/171,468
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 1122
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1049
; LENGTH: 704
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-225-066A-1049

Query Match 2.3%; Score 25; DB 13; Length 704;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 GACTAAAGACCGTCACACGAAAGTT 246
Db 189 GACTAAAGACCGTCACACGAAAGTT 213

RESULT 7

US-10-374-780A-2689
; Sequence 2689, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Riechmann, Jose Luis
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Heard, Jacqueline E
; APPLICANT: Haake, Volker
; APPLICANT: Creelman, Robert A
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Adam, Luc J
; APPLICANT: Reuber, T. Lynne
; APPLICANT: Keddie, James
; APPLICANT: Broun, Pierre E
; APPLICANT: Pilgrim, Marsha L
; APPLICANT: Dubell III, Arnold T
; APPLICANT: Pineda, Omlaira
; APPLICANT: Yu, Guo-Liang
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
; FILE REFERENCE: MBI-0047 CIP
; CURRENT APPLICATION NUMBER: US/10/374,780A
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: 09/837,944
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/310,847
; PRIOR FILING DATE: 2001-08-09

; PRIOR APPLICATION NUMBER: 09/934,455
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/336,049
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/338,692
; PRIOR FILING DATE: 2001-12-11
; PRIOR APPLICATION NUMBER: 10/171,468
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 10/225,066
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,067
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,068
; PRIOR FILING DATE: 2002-08-09
; NUMBER OF SEQ ID NOS: 2906
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2689
; LENGTH: 704
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: G1663
US-10-374-780A-2689

Query Match 2.3%; Score 25; DB 16; Length 704;
Best Local Similarity 100.0%; Pred.No. 0.012;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 GACTAAAGACCGTCACACGAAGTT 246
|||||
DB 189 GACTAAAGACCGTCACACGAAGTT 213

RESULT 8

US-09-732-627A-4287
; Sequence 4287, Application US/09732627A
; Publication No. US2004012338A1
; GENERAL INFORMATION:
; APPLICANT: Fincher, Karen L.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(51770)B
; CURRENT APPLICATION NUMBER: US/09/732,627A
; CURRENT FILING DATE: 2000-12-08
; NUMBER OF SEQ ID NOS: 4930
; SEQ ID NO 4287
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3493-028-F1-M1-F9
US-09-732-627A-4287

Query Match 2.1%; Score 23; DB 12; Length 390;
Best Local Similarity 100.0%; Pred.No. 0.15;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 ACTAAAGACCGTCACACGAAGTT 245
|||||
DB 43 ACTAAAGACCGTCACACGAAGTT 65

RESULT 9

US-10-021-323-15482
; Sequence 15482, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; NUMBER OF SEQ ID NOS: 2011

; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 15482
; LENGTH: 587
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3829-026-Q6-K6-G6
US-10-021-323-15482

Query Match 2.1%; Score 23; DB 17; Length 587;
Best Local Similarity 100.0%; Pred.No. 0.15;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 ACTAAAGACCGTCACACGAAGTT 245
|||||
DB 257 ACTAAAGACCGTCACACGAAGTT 279

RESULT 10

US-10-412-699B-551
; Sequence 551, Application US/10412699B
; Publication No. US20040045049A1
; GENERAL INFORMATION:
; APPLICANT: Mendel Biotechnology, Inc.
; APPLICANT: Zhang, James
; APPLICANT: Fromm, Michael E.
; APPLICANT: Heard, Jacqueline E.
; APPLICANT: Riechmann, Jose Luis
; APPLICANT: Adam, Luc J.
; APPLICANT: Broun, Pierre E.
; APPLICANT: Pineda, Omaira
; APPLICANT: Reuber, T. Lynne
; APPLICANT: Keddle, James S.
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Samaha, Raymond R.
; APPLICANT: Pilgrim, Marsha L.
; APPLICANT: Creelman, Robert A.
; APPLICANT: DuBell, Arnold N.
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Kumimoto, Roderick
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: Polynucleotides and Polypeptides in Plants
; FILE REFERENCE: MBI-0048CIP
; CURRENT APPLICATION NUMBER: US/10/412,699B
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: 09/394,519
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: 09/489,376
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 09/506,720
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 09/533,030
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/533,392
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/533,029
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/532,591
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/533,648
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/713,994
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 09/819,142
; PRIOR FILING DATE: 2001-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2011

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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 551
; LENGTH: 1604
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: G802
US-10-412-699B-551

Query Match      2.1%; Score 23; DB 13; Length 1604;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 TCGACTAAAGACCGTCACAGAA 242
    |||||
Db 317 TCGACTAAAGACCGTCACAGAA 339

RESULT 11
US-10-295-403-147
; Sequence 147, Application US/10295403
; Publication No. US20030101481A1
; GENERAL INFORMATION:
; APPLICANT: Heard, Jacqueline
; APPLICANT: Adam, Luc
; APPLICANT: Broun, Pierre
; APPLICANT: Pineda, Omaira
; APPLICANT: Reuber, Lynne
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Keddie, James
; APPLICANT: Zhang, James
; APPLICANT: Benito, Maria-Ines
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Fromm, Mike
; TITLE OF INVENTION: PLANT GENE SEQUENCES I
; FILE REFERENCE: MBI-0003
; CURRENT APPLICATION NUMBER: US/10/295,403
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/394,519
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: 60/101,349
; PRIOR FILING DATE: 1998-09-22
; PRIOR APPLICATION NUMBER: 60/103,312
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: 60/108,734
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 60/113,409
; PRIOR FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 147
; LENGTH: 1604
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (143)..(1345)
; OTHER INFORMATION: G802
US-10-295-403-147

Query Match      2.1%; Score 23; DB 15; Length 1604;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 TCGACTAAAGACCGTCACAGAA 242
    |||||
Db 317 TCGACTAAAGACCGTCACAGAA 339

RESULT 12
US-10-424-599-59834
; Sequence 59834, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 59834
; LENGTH: 442
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_25040C.1
US-10-424-599-59834

Query Match      1.9%; Score 20; DB 13; Length 442;
Best Local Similarity 100.0%; Pred. No. 6.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 CATTGAAGAGAGCTTCGACT 225
    |||||
Db 53 CATTGAAGAGAGCTTCGACT 72

RESULT 13
US-10-276-774-292/c
; Sequence 292, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276,774
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 292
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION:
US-10-276-774-292

Query Match      1.9%; Score 20; DB 13; Length 453;
Best Local Similarity 100.0%; Pred. No. 6.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 618 CACTGTGGCTCAGCAACTTC 637
    |||||
Db 239 CACTGTGGCTCAGCAACTTC 220

RESULT 14
US-10-369-493-37704/c
; Sequence 37704, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; PLANTS WITH IMPROVED PROPERTIES
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; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 37704
; LENGTH: 1263
; TYPE: DNA
; ORGANISM: Pseudomonas fluorescens
US-10-369-493-37704

Query Match 1.9%; Score 20; DB 16; Length 1263;
Best Local Similarity 100.0%; Pred.No. 6.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 764 CCGCGCTGCTTCGCGTQG 783
|||||
Db 874 CCGCGCTGCTTCGCGTQG 855

RESULT 15
US-10-424-599-93501/c
; Sequence 93501, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 93501
; LENGTH: 1756
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_55445C.1
US-10-424-599-93501

Query Match 1.9%; Score 20; DB 13; Length 1756;
Best Local Similarity 100.0%; Pred.No. 6.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 406 CCGCCATGCCATGTCGT 425
|||||
Db 26 CCGCCATGCCATGTCGT 7

Search completed: August 7, 2004, 13:44:07
Job time : 517.675 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 03:54:24 ; Search time 128.765 seconds
(without alignments)
7227.512 Million cell updates/sec

Title: US-09-938-842A-3729

Perfect score: 1677

Sequence: 1 ggtaagcgtttactatg.....ttctctcagctatattta 1677

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/prodata/2/ina/5A_COMB.seq: *
2: /cgn2_6/prodata/2/ina/5B_COMB.seq: *
3: /cgn2_6/prodata/2/ina/6A_COMB.seq: *
4: /cgn2_6/prodata/2/ina/6B_COMB.seq: *
5: /cgn2_6/prodata/2/ina/PCTUS_COMB.seq: *
6: /cgn2_6/prodata/2/ina/backfileseq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	44.4	2.6	832	4	US-09-621-976-2813
C 3	43.4	2.6	640681	4	US-09-790-988-1
C 4	42.2	2.5	1666	1	US-08-076-090-1
C 5	42.2	2.5	1666	5	PCT-US94-06661-1
C 6	42.2	2.5	2500	1	US-08-550-715-10
C 7	42.2	2.5	3385	4	US-09-411-449-3
C 8	42.2	2.5	3496	4	US-09-411-449-1
C 9	42.2	2.5	3805	4	US-09-411-449-4
C 10	42.2	2.5	3916	4	US-09-411-449-2
C 11	42.2	2.5	6060	5	PCT-US96-09430-7
C 12	42	2.5	1440	4	US-09-107-532A-2589
C 13	41.2	2.5	640681	4	US-09-790-988-1
C 14	41	2.4	505	4	US-09-621-976-15639
C 15	39.8	2.4	6317	3	US-10-204-708-11
C 16	39.6	2.4	837	3	US-08-998-416-288
C 17	39.6	2.4	7218	1	US-08-232-463-14
C 18	39.2	2.3	6070	4	US-10-204-708-9
C 19	39.2	2.3	19233	4	US-10-204-708-45
C 20	39	2.3	731	1	US-08-451-405A-2
C 21	39	2.3	2251	3	US-08-991-677-11
C 22	39	2.3	8607	4	US-10-204-708-71
C 23	39	2.3	1664976	4	US-08-916-421B-1
C 24	39	2.3	1664976	4	US-08-916-421B-1
C 25	38.8	2.3	832	4	US-09-621-976-2813
C 26	38.8	2.3	2169	4	US-09-434-408-3
C 27	38.8	2.3	6182	4	US-10-204-708-86

C 28	38.6	2.3	606	4	US-09-601-198-162
C 29	38.6	2.3	1990	4	US-08-961-527-232
C 30	38.6	2.3	119124	2	US-08-487-826B-13
C 31	38.6	2.3	118067	4	US-09-497-855A-32
C 32	38.2	2.3	731	1	US-08-451-405A-2
C 33	38.2	2.3	8093	4	US-10-204-708-31
C 34	38.2	2.3	19250	4	US-08-961-527-35
C 35	38	2.3	2341	3	US-09-187-049-11
C 36	37.8	2.3	1189	1	US-08-307-591-2
C 37	37.6	2.2	2394	3	US-09-414-010-3
C 38	37.6	2.2	2394	4	US-09-812-216-3
C 39	37.6	2.2	8133	1	US-08-480-604A-5
C 40	37.6	2.2	8133	2	US-08-405-496A-5
C 41	37.6	2.2	8133	3	US-08-915-136-5
C 42	37.6	2.2	8133	4	US-08-957-310-5
C 43	37.6	2.2	8133	4	US-10-011-366-5
C 44	37.6	2.2	8133	4	US-09-084-517-5
C 45	37.6	2.2	1230025	4	US-09-198-452A-1

ALIGNMENTS

RESULT 1
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-Fls
US-08-232-463-14

Query Match

2.8%; Score 46.4; DB 1; Length 7218;

STREET: 1100 Peachtree Street, Suite 2800
CITY: Atlanta
STATE: Georgia
COUNTRY: U.S.
ZIP: 30309-4530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/076.090
FILING DATE: 19930611
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT 6128
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 815-6508
TELEFAX: (404) 815-6555
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1666 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL TYPE: Beta-globin gene
FEATURE:
NAME/KEY: misc_signal
LOCATION: 37..298
OTHER INFORMATION: /note= "Exon III"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 299..1148
OTHER INFORMATION: /note= "Intron 2"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1149..1370
OTHER INFORMATION: /note= "Exon II"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1371..1501
OTHER INFORMATION: /note= "Intron 1"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1502..1643
OTHER INFORMATION: /note= "Exon I"
US-08-076-090-1

Query Match 2.5%; Score 42.2; DB 1; Length 1666;
Best Local Similarity 47.5%; Pred. No. 0.18;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;
QY 1091 TTTTCCATAAAATTAAGTAAATCTTTTTCCTAACCAATAAAATTTTGAATC 1150
Db 684 TGTGTACACATATTAACATTAACCTTAACCCATAAATATGTAATGATTATGATC 743
QY 1151 TTCCCAACATGAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAAGCTAGT 1210
Db 744 AATTGAAATAAAGAAAAATAAGTAGGAGATTATGATATGCAATAGCACATAT 803
QY 1211 ATTTTCATTTGGGAGTGTACTAGTACTAGTAACTAACCCAGATGAGTTTCTGATTT 1270
Db 804 ATCCAAATAGTAATGTACTAGGCAGACTGTGTAAGTTTTTTTTTAAGTTACTTAATGT 863
QY 1271 GGATTTTGAAGCTTTCTTAGTTTAAACAAAGTATATTACTAAACATTAAGAAAAA 1330

Db 864 ATCTCAGAGATATTTCTTTTGTATTACACAATGTTAAGGCATTAAAGTATATAAGTAAAA 923
QY 1331 CATTTTGTGAAAGAGAAATAAA 1353
Db 924 ATTCGGAGAGAGAAAAAAGAA 946
RESULT 5
PCT-US94-06661-1
Sequence 1, Application PC/TUS9406661
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Retroviral Vectors for Transducing
TITLE OF INVENTION: Beta-Globulin Gene and Beta-Locus Control Region
TITLE OF INVENTION: Derivatives
NUMBER OF SEQUENCES: 5
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/06661
FILING DATE: 10-JUN-1994
CLASSIFICATION:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1666 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo Sapiens
CELL TYPE: Beta-globin gene
FEATURE:
NAME/KEY: misc_signal
LOCATION: 37..298
OTHER INFORMATION: /note= "Exon III"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 299..1148
OTHER INFORMATION: /note= "Intron 2"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1149..1370
OTHER INFORMATION: /note= "Exon II"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1371..1501
OTHER INFORMATION: /note= "Intron 1"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1502..1643
OTHER INFORMATION: /note= "Exon I"
PCT-US94-06661-1

Query Match 2.5%; Score 42.2; DB 5; Length 1666;
Best Local Similarity 47.5%; Pred. No. 0.18;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;
QY 1091 TTTTCCATAAAATTAAGTAAATCTTTTTCCTAACCAATAAAATTTTGAATC 1150
Db 684 TGTGTACACATATTAACATTAACCTTAACCCATAAATATGTAATGATTATGATC 743
QY 1151 TTCCCAACATGAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAAGCTAGT 1210
Db 744 AATTGAAATAAAGAAAAATAAGTAGGAGATTATGATATGCAATAGCACATAT 803
QY 1211 ATTTTCATTTGGGAGTGTACTAGTACTAGTAACTAACCCAGATGAGTTTCTGATTT 1270

Db	804	ATTC	CAAA	TAGT	AAAT	GTACTAGG	CAGAC	CTGT	GTAAG	TTTTTTTTTT	TAAAGT	TACTTAAT	GT	863
Qy	1271	GGAT	TTTGA	AGCT	TTTCT	TAGT	TTAAAA	CAAG	TATAT	TATCTA	AAACAT	ATAA	AGAAAA	1330
Db	864	ATCT	CAGA	GATAT	TTCC	TTTCTTT	TACACA	ATGT	TAAAGC	ATTAGT	TATTA	TAGTAA	AA	923
Qy	1331	CAT	TTTGT	CAAA	AGAGA	ATAA	1353							
Db	924	ATTG	CGGAG	AGAAAA	AAAAA	AGA	946							

RESULT 6

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US-08-550-715-10/c
; Sequence 10, Application US/08550715
; Patent No. 5750345
; GENERAL INFORMATION:
; APPLICANT: Bowie, Lemuel J.
; TITLE OF INVENTION: Human  $\alpha_1$ -Thalassemia Mutations as a Predictor of
; TITLE OF INVENTION: Blood-Related Disorders
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/550,715
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Gass, David A.
; REGISTRATION NUMBER: 38,153
; REFERENCE/DOCKET NUMBER: 28493/32834
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2500 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(687..778, 909..1131, 1982..2107)
; US-08-550-715-10

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Query Match	2.5%	Score 42.2;	DB 1;	Length 2500;
Best Local Similarity	47.5%;	Pred. No. 0.21;	138;	Indels 0; Gaps 0;
Matches 125;	Conservative	0;	Mismatches	
QY	1091	TTTTTCCATAAAATAAAGTAAATCTTTTTTGGCTAACCAATAAAAAATTTATTGAAAAATC	1150	
Db	1596	TCTGTACACATATTAAAAACATTACACITTTAACCCATAAATATGTATTAATGATTATGTATC	1537	
QY	1151	TTTCCAAACCATGAAAAAGTTTAAATTTGATCAGCGATGGAATTTTTTGTCAAAAGCTAGGT	1210	
Db	1536	AAATTAAAAATAAAGAAAAATAAAGTAGGGAGATTATGAAATGCAATATAGCACACACATAT	1477	
QY	1211	ATTTTCATTTGGAGTGTACTAGTAACTAGTAGTACTAACACAGAATCAGTTTTCTGATTTT	1270	
Db	1476	ATTTCCAAATAGTAAATGTACTAGGCAGACTGTGTAAAGTTTTTTTTTAAAGTTACTTAAATGT	1417	
QY	1271	GGATTTTGAAGCTTTTCTTAGTTTAAAAAACAAGTATATTACTAAACAATAAAGAAAAA	1330	

Db 1416 ATCTCAGAGATATTTCTCTTTTGTTATACAACTGTTAAGGCATTAAAGTATATAGTAAAA 1357

Qy 1331 CATTTTGTGAAAAGAGAAATAAA 1353

Db 1356 ATTGCGGAGAGAAGAAAAAAGA 1334

RESULT 7

```

US-09-411-449-3/c
US-09-411-449-3/c
; Sequence 3, Application US/09411449
; Patent No. 6524851
; GENERAL INFORMATION:
; APPLICANT: James Ellis
; TITLE OF INVENTION: HYBRID NUCLEIC ACID MOLECULES AND VECTORS INCLUDING
; TITLE OF INVENTION: beta-GLOBIN REGULATORY ELEMENTS
; FILE REFERENCE: 17860017
; CURRENT APPLICATION NUMBER: US/09/411,449
; CURRENT FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 2,246,005
; PRIOR FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 3385
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-411-449-3

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Query Match	2.5%;	Score 42.2;	DB 4;	Length 3385;
Best Local Similarity	47.5%;	Pred. No. 0.23;	138;	Indels 0;
Matches 125;	Conservative	0;	Mismatches	0;
Qy	1091	TTTTTCCATAAAATTAAGTAAATCTTTTTTGCCTAACCAATAAAAAATTTATTCGAAAAATC	1150	
Db	2128	TGTGTACACATATTAAAAACATTACACTTTAACCCATAAATATGATATATGATTATGTATC	2069	
Qy	1151	TTTCCAACCATAGAAAAGTTAAATTTGATCAGCGCATGGAATTTTTTGTACAAAGCTAGGT	1210	
Db	2068	AATTAAAAATTAAGAAAAAATAAGTAGGGAGATTATGAAATATGCAATATAGCACACATAT	2009	
Qy	1211	ATTTTCATTTGGGAGTGTTACTAGTAACCTAGTAGTACTAAACGAAATGAGTTTTCTGATTTTT	1270	
Db	2008	ATTCCAAATAGTAAATGTACTAGGCAGACTGTGTAAAGTTTTTTTTTAAAGTTACTTAAATGT	1949	
Qy	1271	GGATTTTGAAGCTTTTCCTTAGTTTAAAAAACAAGTATATTACTAAAACAATAAAAAAGAAAA	1330	
Db	1948	ATCTCAGAGATATTTCCTTTTGGTTATACCAATGTTAAGGCATTAAAGTATAATAGTAAAA	1899	
Qy	1331	CATTTTGTGAAAAGAGAAATAAA	1353	
Db	1888	ATTGCGGAGAGAAAAAAGAAAAAGA	1866	

8 JUL 1958

```

RES001.8
US-09-411-449-1/C
; Sequence 1, Application US/09411449
; Patent No. 6524851
; GENERAL INFORMATION:
; APPLICANT: James Ellis
; TITLE OF INVENTION: HYBRID NUCLEIC ACID MOLECULES AND VECTORS INCLUDING
; TITLE OF INVENTION: beta-GLOBIN REGULATORY ELEMENTS
; FILE REFERENCE: 17860017
; CURRENT APPLICATION NUMBER: US/09/411.449
; PRIORITY FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 2,246,005
; PRIOR FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 3496
; TYPE: DNA
; ORGANISM: Homo sapiens

```

US-09-411-449-1

Query Match 2.5%; Score 42.2; DB 4; Length 3496;
Best Local Similarity 47.5%; Pred. No. 0.23;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY 1091 TTTTCCATAAATAAAGTAAATCTTTTTCGCTAACCAATAAAATATTGAAATC 1150
Db TGTGTACACATATTAAACATTAACCTTTAACCCATAAATATGTAATGATTATGATC 2180

QY 1151 TTTCCAAACCATAGAAAAGTTAAATTTTCATCAGCGATGGAATTTTCTGACAAAGCTAGGT 1210
Db AATTAATAAATAAAGAAAATAAAGTAGGGAGATTATGAATGCAAAATAAGCACATAT 2120

QY 1211 ATTTCATTTGGGAGTGTACTAGTAAGTAACTAAGTAACTAAGCAGAAATCTCTGATTTT 1270
Db ATTCCAAATAGTAATGTACTAGGAGTGTGTAAGCTTTTCTTAAAGTACTTAATGT 2060

QY 1271 GGATTTTGAAGCTTTCTTAAAGTTAAACAAAGTATATTAATAAATAAAGAAAA 1330
Db ATCTCAGAGATATTTCTTTTGTATACACAATGTTAAGGCATTAAGTATAATAGTAAAA 2000

QY 1331 CATTTTGTGAAAAGAGAAATAAA 1353
Db 1999 ATTGCGGAGAGAAAAAAGA 1977

RESULT 9

US-09-411-449-4/c
; Sequence 4, Application US/09411449
; Patent No. 6524851
; GENERAL INFORMATION:
; APPLICANT: James Ellis
; TITLE OF INVENTION: HYBRID NUCLEIC ACID MOLECULES AND VECTORS INCLUDING
; FILE OF INVENTION: beta-GLOBIN REGULATORY ELEMENTS
; FILE REFERENCE: 17860017
; CURRENT APPLICATION NUMBER: US/09/411,449
; CURRENT FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 2,246,005
; PRIOR FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 3805
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-411-449-4

Query Match 2.5%; Score 42.2; DB 4; Length 3805;
Best Local Similarity 47.5%; Pred. No. 0.24;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY 1091 TTTTCCATAAATAAAGTAAATCTTTTTCGCTAACCAATAAAATATTGAAATC 1150
Db TGTGTACACATATTAAACATTAACCTTTAACCCATAAATATGTAATGATTATGATC 2489

QY 1151 TTTCCAAACCATAGAAAAGTTAAATTTTCATCAGCGATGGAATTTTGTACAAAGCTAGGT 1210
Db AATTAATAAATAAAGAAAATAAAGTAGGGAGATTATGAATGCAAAATAAGCACATAT 2429

QY 1211 ATTTCATTTGGGAGTGTACTAGTAAGTAACTAAGTAACTAAGCAGAAATCTCTGATTTT 1270
Db ATTCCAAATAGTAATGTACTAGGAGTGTGTAAGCTTTTCTTAAAGTACTTAATGT 2369

QY 1271 GGATTTTGAAGCTTTCTTAAAGTTAAACAAAGTATATTAATAAATAAAGAAAA 1330
Db ATCTCAGAGATATTTCTTTTGTATACACAATGTTAAGGCATTAAGTATAATAGTAAAA 2309

QY 1331 CATTTTGTGAAAAGAGAAATAAA 1353
Db 2308 ATTGCGGAGAGAAAAAAGA 2286

RESULT 10

US-09-411-449-2/c
; Sequence 2, Application US/09411449
; Patent No. 6524851
; GENERAL INFORMATION:
; APPLICANT: James Ellis
; TITLE OF INVENTION: HYBRID NUCLEIC ACID MOLECULES AND VECTORS INCLUDING
; FILE OF INVENTION: beta-GLOBIN REGULATORY ELEMENTS
; FILE REFERENCE: 17860017
; CURRENT APPLICATION NUMBER: US/09/411,449
; CURRENT FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 2,246,005
; PRIOR FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 3916
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-411-449-2

Query Match 2.5%; Score 42.2; DB 4; Length 3916;
Best Local Similarity 47.5%; Pred. No. 0.24;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY 1091 TTTTCCATAAATAAAGTAAATCTTTTTCGCTAACCAATAAAATATTGAAATC 1150
Db TGTGTACACATATTAAACATTAACCTTTAACCCATAAATATGTAATGATTATGATC 2600

QY 1151 TTTCCAAACCATAGAAAAGTTAAATTTTCATCAGCGATGGAATTTTGTACAAAGCTAGGT 1210
Db AATTAATAAATAAAGAAAATAAAGTAGGGAGATTATGAATGCAAAATAAGCACATAT 2540

QY 1211 ATTTCATTTGGGAGTGTACTAGTAAGTAACTAAGTAACTAAGCAGAAATCTCTGATTTT 1270
Db ATTCCAAATAGTAATGTACTAGGAGTGTGTAAGCTTTTCTTAAAGTACTTAATGT 2480

QY 1271 GGATTTTGAAGCTTTCTTAAAGTTAAACAAAGTATATTAATAAATAAAGAAAA 1330
Db ATCTCAGAGATATTTCTTTTGTATACACAATGTTAAGGCATTAAGTATAATAGTAAAA 2420

QY 1331 CATTTTGTGAAAAGAGAAATAAA 1353
Db 2419 ATTGCGGAGAGAAAAAAGA 2397

RESULT 11

PCT-US96-09430-7/c
; Sequence 7, Application PC/TUS9609430
; GENERAL INFORMATION:
; APPLICANT: Glazer, Peter M.
; TITLE OF INVENTION: TREATMENT OF HEMOGLOBINOPATHIES
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: OncorPharm, Inc.
; STREET: 200 Perry Parkway
; CITY: Gaithersburg
; STATE: Maryland
; COUNTRY: US
; ZIP: 20877
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/09430
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/473,845
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:

NAME: Karta, Glenn E.
REGISTRATION NUMBER: 30,649
REFERENCE/DOCKET NUMBER: PA-0040
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-527-2058
TELEFAX: 301-208-6997
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 6060 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
POSITION IN GENOME:
CHROMOSOME/SEGMENT: 11
PCT-US96-09430-7

Query Match 2.5%; Score 42.2; DB 5; Length 6060;
Best Local Similarity 47.5%; Pred. No. 0.29;
Matches 125; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY 1091 TTTTCCATAAAATTAAAGTAACTCTTTTGGCTCAACCAATAAAAAATTATTGAAATC 1150
DB 3096 TGTGTACACATATTAAACATTTACCTTTAACCCATAATATGTATATGATTATGATC 3037

QY 1151 TTTCCACCATAGAAAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAAGTAGGT 1210
DB 3036 AATTAAAAATAAAGAAAAATTAAGTAGGAGATTATGAATATGCAATAAGCACACATAT 2977

QY 1211 ATTTCATTGGGAGTGTACTAGTAACTAGTAACTAACCAATGAGTTTCTGATTTT 1270
DB 2976 ATTCCAAATAGTAATGTACTAGCGAGCTGTGTAAAGTTTTTTTAAAGTTACTTAATGT 2917

QY 1271 GGATTTTGAAGCTTTCTTAGTGTAAACCAAGTATATTACTAAACATAAAGAAAAA 1330
DB 2916 ATCTCAGAGATATTCCTTTTGTATTATACAAATGTTAAGGCATTAGTATATAGTAAA 2857

QY 1331 CATTTTGTGAAAGAGAAATAAA 1353
DB 2856 ATTCGGAGAAGAAAAAAGA 2834

RESULT 12
US-09-107-532A-2589
Sequence 2589, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 2589:
SEQUENCE CHARACTERISTICS:
LENGTH: 1440 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...1440
SEQUENCE DESCRIPTION: SEQ ID NO: 2589:
US-09-107-532A-2589

Query Match 2.5%; Score 42; DB 4; Length 1440;
Best Local Similarity 54.5%; Pred. No. 0.19;
Matches 84; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 1297 AAAACAAGTATATTAACAATAAAGAAAAACATTTGTGAAAAAGAAATAAAGTT 1356
DB 102 AAGAAATCTAACCAATCAAGCAAAATTCGAACACAAAGGTGTAAAAACAGAAAATCAGTT 161

QY 1357 TACTGCAGCCCATTTCTACAGATGGTCCCATATAATACTATGATAGAGATAGACCAATGA 1416
DB 162 ATCTGAACAAGAAATCAAGAGGCGAGATGCAATCACTCTTCAGTAGATAAAGAAATCGA 221

QY 1417 AAGTGATTGTTTCAGCTGTGTACAAATCGGAATGGT 1450
DB 222 ATTGCAGCGATTTCGCGGMAAAAGATAAGCGT 255

RESULT 13
US-09-790-988-1/c
Sequence 1, Application US/09790988
Patent No. 6632935
GENERAL INFORMATION:
APPLICANT: SHIGENOBU, SHUJI
APPLICANT: WATANABE, HIDEKI
APPLICANT: HATTORI, MASAHIRA
APPLICANT: SAKAKI, YOSHIYUKI
TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
FILE REFERENCE: 081356/0159
CURRENT APPLICATION NUMBER: US/09/790,988
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: JP2000-107160
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
TYPE: DNA
LENGTH: 640681
ORGANISM: Buchnera sp.
US-09-790-988-1

Query Match 2.5%; Score 41.2; DB 4; Length 640681;
Best Local Similarity 52.3%; Pred. No. 2.7;
Matches 91; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

QY 1238 AGTAAGTACTAACCAAGTGGTTCTGATTTTGGATTTTGAAGCTTTTCTTAGGTAAA 1297
DB 68453 AGACAGTTATATACTTTGTTATCAATGATTTTAAATACAAAAACGTCGTATTATTAG 68394

QY 1298 AAACAAGTATATTAATAACAATAAAGAAACAAATTTGTGAAAAGAGAAATAAAGTTT 1357
Db 68393 TACCGTTTAAATATATATATATACTAAATAAAATTTATTTATAACAGGAAATATATGCTT 68334
QY 1358 ACTGGACCCCATGTACAGATGGTCCCATATATATATCTAGTAGAAGATAGAGCA 1411
Db 68333 GAICTACATCAAGTTATTTGTTCTTATTATTATCGGAGTAAATAGAGGGATAACA 68280

RESULT 14
US-09-621-976-15639
; Sequence 15639 Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 15639
; LENGTH: 505
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-15639

Query Match 2.4%; Score 41; DB 4; Length 505;
Best Local Similarity 12.0%; Pred. No. 0.24;
Matches 35; Conservative 133; Mismatches 123; Indels 0; Gaps 0;
QY 541 GGATCCGTTGTTGTTGTTAATCTCAAGCCACGCTATCGCAATATTTGATTTTGGTG 600
Db 60 GYRYSYWGYNKWSKMMKISGNGTSGSTRKYRTYTSKCRKTTCKYRGWNSKWRMMK 119
QY 601 GTAGGAATGGTGGGTGCAATAGTGGCGCTAGCCCTCAACAATGTGTGGAACGTAAG 660
Db 120 RRMYYRMKCYSCASYSYRRCRYTGMTRGMWYCKKRMCKSSRYMTRYRYKMTG 179
QY 661 AGAGTAGGTCCAGTCACGCCACATTCACATTTTCGTTTGTAGCCTTTCTCTCG 720
Db 180 ACYGSKMSCKSGRSKYGSWYKYKTYMCTSKYKSKMSYKSKSMCYVMCYVYWW 239
QY 721 TCGTTACGGTCCCTCTTCTGTCGCGTGTATGTACAGTAGCATAGTAGTGCTAG 780
Db 240 CACTYKSYTCKSKSYTYRTSTSKGWTGKSRWSYTWMSKSYTWGCSKKWRMYWSAG 299
QY 781 CCGGAAACAAAGTACCAACGAATCAAAATAAGTTGAATCGGTTACATCTAG 831
Db 300 AWYAMSMWCMARMCMAGMRSAAWKCSRAKKYMYMAKSKMYCAKMSCSAR 350

RESULT 15
US-10-204-708-11
; Sequence 11, Application US/10204708
; Patent No. 667731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204.708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.9

; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
; LENGTH: 6317
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-11

Query Match 2.4%; Score 39.8; DB 4; Length 6317;
Best Local Similarity 49.1%; Pred. No. 1.2;
Matches 135; Conservative 0; Mismatches 137; Indels 3; Gaps 1;
QY 1084 TTACAGCTTTTCCATAAAATTAAGTAAATCTTTTTCGCTAACCAATAAAATTTAT 1143
Db 1551 TAAAGTTTTTGAATTTTAAAGTAAATTTTAAAGTTTAAAGTTTAAAGTTTAT 1610
QY 1144 GAAATCTTTCCAAACCATAGAAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAA 1203
Db 1611 GAAATATTTTAAATATATAGAGAAATTTGAAAGAGTATTGTTAATAATATATTAATGAAT 1670
QY 1204 GCTAGGTATTTCAATTTGGGAGTGTACTAGTAAGTACTAGTAAGTACTAGTAAGTACTAG 1263
Db 1671 TAGATTTAATAATTTGTTAATAATTTTGTCTGTA---TGTATTAAATTTTAAATTTT 1727
QY 1264 TGATTTTGGATTTTGAAGCTTTTCTTAGGTTAAAAACAAGTATATATCTAAACAATAAA 1323
Db 1728 TGATTTAATAATTTTAAAGTATTTATAAATATTATAAGATATTTTATTTTAAATATTT 1787
QY 1324 AGAAAAACATTTTGTGAAAAGAGAAAATAAAGTTTA 1358
Db 1788 ATATGTATATTTTAAAGTAAAGTAAATATATA 1822

Search completed: August 7, 2004, 06:55:49
Job time : 134.765 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 06:40:17 ; Search time 803.105 seconds

(without alignments)
10238.472 Million cell updates/sec

Title: US-09-938-842A-3729

Perfect score: 1677

Sequence: 1 ggtaagcggtttactatg.....ttctctcagctatatttta 1677

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3222919 seqs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
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- 18: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1677	100.0	1677	9	US-09-938-842A-3729
2	1677	100.0	1677	11	Sequence 3729, Ap
3	52.4	3.1	2000	9	Sequence 3729, Ap
4	49.6	3.0	858	15	Sequence 7035, Ap
5	49.2	2.9	3673778	15	US-10-198-846-7035
6	49	2.9	3673778	15	US-10-312-841-2
7	48.6	2.9	20933	17	US-10-312-841-1
8	47.8	2.9	2958	9	US-10-433-793-154
9	47.8	2.9	2958	11	US-09-938-842A-338
10	46.6	2.8	516	9	US-09-938-842A-338
11	46.6	2.8	789	13	US-09-960-352-5785
12	46.4	2.8	610	17	US-10-282-122A-15640
13	46.4	2.8	7047	15	US-10-021-323-8212
14	46.4	2.8	17848	15	US-10-240-453-458
					Sequence 28, Appl

C 15	46.4	2.8	17848	15	US-10-240-453-38	Sequence 38, Appl
C 16	46.4	2.8	17848	17	US-10-257-166-58	Sequence 58, Appl
C 17	45.6	2.7	37515	17	US-10-433-793-28	Sequence 28, Appl
C 18	45.4	2.7	6352	13	US-10-221-613-195	Sequence 195, Appl
C 19	45.2	2.7	616	13	US-10-027-632-233686	Sequence 233686, Appl
C 20	45.2	2.7	616	16	US-10-027-632-233686	Sequence 233686, Appl
C 21	45	2.7	502	10	US-09-814-353-17272	Sequence 17272, A
C 22	44.8	2.7	1271	9	US-09-938-842A-2829	Sequence 2829, Ap
C 23	44.8	2.7	1271	11	US-09-938-842A-2829	Sequence 2829, Ap
C 24	44.6	2.7	556	10	US-09-814-353-4676	Sequence 4676, Ap
C 25	44.6	2.7	556	10	US-09-814-353-10975	Sequence 10975, A
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C 27	44.6	2.7	2000	11	US-09-938-842A-4038	Sequence 4038, Ap
C 28	44.4	2.6	531	17	US-10-021-323-6375	Sequence 6375, Ap
C 29	44.2	2.6	449	13	US-10-424-599-31704	Sequence 31704, A
C 30	44.2	2.6	8711	13	US-10-221-714A-424	Sequence 424, App
C 31	44.2	2.6	19734	15	US-10-311-455-1906	Sequence 1906, Ap
C 32	44.2	2.6	113515	15	US-10-311-455-2148	Sequence 2148, Ap
C 33	44	2.6	7498	15	US-10-311-455-230	Sequence 230, App
C 34	43.8	2.6	12643	13	US-10-424-599-4304	Sequence 4304, Ap
C 35	43.6	2.6	11473	15	US-10-311-455-1328	Sequence 1328, Ap
C 36	43.6	2.6	11473	17	US-10-257-166-112	Sequence 112, App
C 37	43.4	2.6	6533	15	US-10-240-453-257	Sequence 257, App
C 38	43.4	2.6	7008	13	US-10-221-714A-254	Sequence 254, App
C 39	43.4	2.6	15161	13	US-10-221-613-386	Sequence 386, App
C 40	43.4	2.6	640681	9	US-09-790-988-1	Sequence 1, Appli
C 41	43.2	2.6	392	13	US-10-621-901-138	Sequence 138, App
C 42	43.2	2.6	2938	15	US-10-198-846-9862	Sequence 9862, Ap
C 43	43.2	2.6	6175	15	US-10-311-455-1280	Sequence 1280, Ap
C 44	43	2.6	6244	15	US-10-311-455-458	Sequence 458, App
C 45	43	2.6	7244	13	US-10-221-714A-451	Sequence 451, App

ALIGNMENTS

RESULT 1
US-09-938-842A-3729
; Sequence 3729, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; LENGTH: 1677
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3729

Query Match 100.0%; Score 1677; DB 9; Length 1677;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1677; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGTTAAGCGTTTACTTATGTTTATATGCAACGGAAGATATCCATTGTGGAATGC 60
DB 1 GGTTAAGCGTTTACTTATGTTTATATGCAACGGAAGATATCCATTGTGGAATGC 60
QY 61 TTTTTCACATCATCAAGGCTCCTACAGATTCTTAGGGAATGGTTTCAGGCTTTGTTA 120

Db 61 TTTTTCAGATCATCAGAGGCTCCTACAGATTCTCTAGGGAATGGTTTCAGGCTTTTCTTA 120
Qy 121 GAAATGTTGTTTATTGCAACAGGTAGAGACATTAACCATAGACAGATGTATCTCAAGAGA 180
Db 121 GAAATGTTGTTTATTGCAACAGGTAGAGACATTAACCATAGACAGATGTATCTCAAGAGA 180
Qy 181 TAAGCTTCTCTATCTCTAAAGAAATGACCATACGAAATTAACCAAGCATCATTAAGAT 240
Db 181 TAAGCTTCTCTATCTCTAAAGAAATGACCATACGAAATTAACCAAGCATCATTAAGAT 240
Qy 241 TAAATGTTGTTTGTAAAGAAATACATCACTTATTTATGTGAAATTTGTGTTAGTGAAGT 300
Db 241 TAAATGTTGTTTGTAAAGAAATACATCACTTATTTATGTGAAATTTGTGTTAGTGAAGT 300
Qy 301 AAAAACATCGGAATCCAAACCTCAATTTACCAATCAGCCCAATTAATTCATGCTGCG 360
Db 301 AAAAACATCGGAATCCAAACCTCAATTTACCAATCAGCCCAATTAATTCATGCTGCG 360
Qy 361 TAATGAATGTTATGCTGATGTTAGGCAAAAGTTGTTGCTGCGAAATTAACCAATTAATC 420
Db 361 TAATGAATGTTATGCTGATGTTAGGCAAAAGTTGTTGCTGCGAAATTAACCAATTAATC 420
Qy 421 CCTCTGTTGTTGCAACCCGAATCTGTAATCGGAAAGTTGTTGCTGCGAAATTAATC 480
Db 421 CCTCTGTTGTTGCAACCCGAATCTGTAATCGGAAAGTTGTTGCTGCGAAATTAATC 480
Qy 481 AAGCTTAAAGTTTACTACCGGTTTGACCGTTTATATTTGTTGTTTAAATTTCTAATCCC 540
Db 481 AAGCTTAAAGTTTACTACCGGTTTGACCGTTTATATTTGTTGTTTAAATTTCTAATCCC 540
Qy 541 GGATCCGTTTGTGTTGTTAATCTCAAGGCCACGTTATCGCCAAATATTTGATTTTGAAGT 600
Db 541 GGATCCGTTTGTGTTGTTAATCTCAAGGCCACGTTATCGCCAAATATTTGATTTTGAAGT 600
Qy 601 GGTAGGAATGTTGGGTCGAATAGTTGGGCTCAGCCCTCAACATGTGTGAACCTGAAG 660
Db 601 GGTAGGAATGTTGGGTCGAATAGTTGGGCTCAGCCCTCAACATGTGTGAACCTGAAG 660
Qy 661 AGATAGGTTCCAGTCCAGGCCCAATTCACATTTTGTGTTGTTAGCCCTTCTTTCTGG 720
Db 661 AGATAGGTTCCAGTCCAGGCCCAATTCACATTTTGTGTTGTTAGCCCTTCTTTCTGG 720
Qy 721 TGCTTACGTTCCCTCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 780
Db 721 TGCTTACGTTCCCTCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 780
Qy 781 CCGGAAACAGTACCAAGTAAAGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 840
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Qy 841 AACTTACATCATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTT 900
Db 841 AACTTACATCATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTT 900
Qy 901 CCGGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db 901 CCGGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Qy 961 AAGGACGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Db 961 AAGGACGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Qy 1021 ATTAGCTTTTGGTGGGCGAGCTTGGACCTACATTAATGTTGGGTCACCAACCAAGTATG 1080
Db 1021 ATTAGCTTTTGGTGGGCGAGCTTGGACCTACATTAATGTTGGGTCACCAACCAAGTATG 1080
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Db 1081 GGCTTACAGCTTTTCCATAAATTAAGTAAATCTTTTTCCTTAAACCAATTAAGT 1140
Qy 1141 ATTGAAATCTTCCACCATAGAAAGTTAAATTTGATCAGCATGGAATTTTGTAC 1200
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Qy 1201 AAAGCTAGGTATTTTCATTTGGGAGTGTTACTAGTAACTAGTAACTAAACAGATGAGT 1260
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Qy 1261 TTCTGATTTTGGATTTTGAAGCTTTTCTTAGTTTAAAGAAACAAAGTATATTTACTAAACAAT 1320
Db 1261 TTCTGATTTTGGATTTTGAAGCTTTTCTTAGTTTAAAGAAACAAAGTATATTTACTAAACAAT 1320
Qy 1321 AAAAGAAACAACTTTTCTGAAAGAGAAATAAGATTTTACTGAGACCCCATTTGACAGATGG 1380
Db 1321 AAAAGAAACAACTTTTCTGAAAGAGAAATAAGATTTTACTGAGACCCCATTTGACAGATGG 1380
Qy 1381 TCCCATATATATCTGATAGAGATAGAGCAATGGAAGTATTTGTTTCACTGAGTAAACA 1440
Db 1381 TCCCATATATATCTGATAGAGATAGAGCAATGGAAGTATTTGTTTCACTGAGTAAACA 1440
Qy 1441 TCGGAATGTTCTTTTAAAGCTCATCGAACACATCAGGACCGTTGATTTTCCCGCATCAA 1500
Db 1441 TCGGAATGTTCTTTTAAAGCTCATCGAACACATCAGGACCGTTGATTTTCCCGCATCAA 1500
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Db 1501 AAAGCGTTGAATCTATTTCTCACTTTTCTGCTCTATATATATATCTGAGAGTTC 1560
Qy 1561 ACATTTAGTAATCTCTTTGGAAGTAAAGCGGTTAAACCGATTTCTTCCCATTTGATCC 1620
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Db 1621 GCTTTTAAACACTCTCGTCGTCATCTCCACCGTCCGTTTCTCTCAGCTATATTTTA 1677

RESULT 2

US-09-938-842A-3729
; Sequence 3729, Application US/09938842A
; Publication NO. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SAME, AND METHODS OF USE
; CURRENT FILING DATE: 2001-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2000-08-24
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; LENGTH: 1677
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3729

Query Match 100.0%; Score 1677; DB 11; Length 1677;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1677; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGATATTTGCCATTTGTTGGAATGC 60
Db 1 GGTAAAGCGTTTACTTATGTTTATATGCAACGGAAGATATTTGCCATTTGTTGGAATGC 60
Qy 61 TTTTTCAGATCATCAAGGCTCTACAGATTTCTTAGGGAATGGTTTCAGGCTTTTGTGA 120
Db 61 TTTTTCAGATCATCAAGGCTCTACAGATTTCTTAGGGAATGGTTTCAGGCTTTTGTGA 120

QY 1195 TTGTACAAAGCTAGGATTTTCATTTGGGAGTGTACTAGTAACTAGTAACTAACTAACCCAGA 1254
DB 899 TTCAAACCTTGAGAAATATTATAGCATTAACCTACACGAAAAAATAAACTTGCAATAC 840
QY 1255 ATGAGTTTCTGATTTTGGATTTTGAAGCTTTTCTTAGGTTTAAATCAACCAAGTATATTA 1314
DB 839 AAGTGTTTTTTTTTTTTTTTTTTTTGAACACGTTAAAGAACCGAACTTTGATCAGTTATTA 780
QY 1315 AACATAAAGAAAAACATTTTGTGAAAGAGAAATAAAGTTTACTGGACCCCATTTGAC 1374
DB 779 GACAAAGCAAGCTACCCCTTGTTGTTGTGACGATCCTATATAAAGTTTTCACGGAAC 720
QY 1375 AGATGGTCCCATATAATACTGATAGAGATAGACAATGGA 1416
DB 719 GCCCTGACGGTTAATCGCATCGGTAGAGAAAGATCCGTCGA 678

RESULT 4
US-10-198-846-7035/c
; Sequence 7035, Application US/10198846
; Publication NO. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7035
; LENGTH: 858
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 137, 182, 183, 184, 185, 186, 187, 188, 209, 211, 212, 217,
; LOCATION: 219, 224, 225, 236, 237, 238, 240, 241, 242, 248, 250, 252,
; LOCATION: 253, 259, 276, 279, 281, 294, 298, 304, 306, 315, 318, 319,
; LOCATION: 320, 321, 327, 338, 349, 350, 352, 355, 363, 378, 379
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 380, 386, 389, 393, 398, 399, 400, 408, 410, 414, 434, 441,
; LOCATION: 443, 446, 451, 459, 466, 488, 490, 497, 498, 499, 501, 503,
; LOCATION: 506, 509, 513, 517, 526, 527, 528, 529, 536, 550, 557, 562,
; LOCATION: 564, 565, 573, 576, 588, 599, 604, 607, 616, 617, 619
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 627, 628, 643, 649, 661, 668, 672, 680, 689, 698, 705, 719,
; LOCATION: 722, 735, 739, 750, 763, 765, 767, 771, 772, 774, 784, 787,
; LOCATION: 790, 791, 792, 795, 798, 805, 814, 816, 819, 820, 822, 830,
; LOCATION: 832, 833, 838, 842, 847, 849, 850, 853, 856, 857
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-7035

Query Match 3.0%; Score 49.6; DB 15; Length 858;
Best Local Similarity 42.1%; Pred. No. 0.22;
Matches 118; Conservative 0; Mismatches 162; Indels 0; Gaps 0;
QY 1088 AGCTTTTCCATAAAATTAAGTAAATCTTTTTCCTCAACCAATAAAATTTATTGAAA 1147
DB 382 ATNNNTTGAATAAAATATAAAAAAANTNNNGGAATTAANAATTTTTTTTAAAAA 323
QY 1148 ATCTTCCAAACCATAGAAAAAGTTAAATTTGATCAGCATGGAATTTTTGTACAAAGCTA 1207

DB 322 GNNNNCAAAATTAANNTNTTTTNGTTTNAAAAAAANAANNTNTTTTAAATTTTTT 263
QY 1208 GGTATTTTCATTTGGGAGTGTACTAGTAACTAGTAACTAACCCAGAATGAGTTTCTGAT 1267
DB 262 AAGNTTTTANNANANATTTTNNNNNNNTAAATTTTTTNTTAAANNTAAANNCTTTTTT 203
QY 1268 TTTCGATTTTGAAGCTTTTCTTAGGTTTAAAAACAAGTATATTTACTAAACAATAAAAGAA 1327
DB 202 TTTTTTTTTTATAANNNNNNAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 143
QY 1328 AAACATTTTGTGAAAAGAGAAATAAAGTTTACTGACCC 1367
DB 142 AAAAANAAGAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAAGTACCTC 103

RESULT 5
US-10-312-841-2/c
; Sequence 2, Application US/10312841
; Publication NO. US20030186277A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Diagnose von bedeutenden genetischen Parametern innerhalb des MHC
; FILE REFERENCE: E01/1208/WO
; CURRENT APPLICATION NUMBER: US/10/312,841
; CURRENT FILING DATE: 2002-12-30
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 3673778
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (379615)
US-10-312-841-2

Query Match 2.9%; Score 49.2; DB 15; Length 3673778;
Best Local Similarity 49.2%; Pred. No. 27;
Matches 129; Conservative 0; Mismatches 133; Indels 0; Gaps 0;
QY 1096 CCATAAAATTAAGTAAATCTTTTTCCTCAACCAATAAAATTTGAAATCTTCC 1155
DB 2005659 CCATAAAATCTTAAAAAAACCCCTTAATCTTAAACCCCAAAAAATTTCCAAACTATAA 2005600
QY 1156 AACCATAGAAAAGTTTAAATTTGATCAGCATGGAATTTTGTACAAAGCTAGTATTC 1215
DB 2005599 CGCAAAACCCAAACAAAAACATAAAAAACAATAATAAACTAAACCACTACAG 2005540
QY 1216 ATTTGGGAGTGTACTAGTAACTAGTAACTAACCCAGAATGAGTTTCTGATTTGGATT 1275
DB 2005539 ATATATAAAACATACCTTAATACATAATAATAACAAAAATTAACCTTTTAATAAAT 2005480
QY 1276 TTGAAGCTTTCTTAGTTAAAAACAAGTATATTTACTAAACAATAAAAGAAAAACATTT 1335
DB 2005479 TCATAAATAATAATTAATAAATAATAATAATAATAAATAATAAATAAATAAATAA 2005420
QY 1336 TGTGAAAAGAGAAATAAAGTTT 1357
DB 2005419 ACCAAAAAATTAATAAATAATTT 2005398

RESULT 6
US-10-312-841-1/c
; Sequence 1, Application US/10312841
; Publication NO. US20030186277A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Diagnose von bedeutenden genetischen Parametern innerhalb des MHC
; FILE REFERENCE: E01/1208/WO
; CURRENT APPLICATION NUMBER: US/10/312,841
; CURRENT FILING DATE: 2002-12-30

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; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 1
; LENGTH: 3673778
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; NAME/KEY: unsure
; LOCATION: (3294164)
US-10-312-841-1

Query Match
Best Local Similarity 2.9%; Score 49; DB 15; Length 3673778;
Matches 151; Conservative 0; Mismatches 170; Indels 0; Gaps 0;

QY 1092 TTTTCCATAAAATTAAGTAATCTTTTTCCTTAACCAATAAAATTTATGAAATCT 1151
Db 2587593 TTATCCCATATTTTAAATAAATAAAACTAAATTCAAAATCATTTCTCAAAAAATAA 2587534

QY 1152 TTCACACATAGAAAAGTTAAATTTGATCAGCGATGGAAAATTTTGTACAAAAGCTAGTA 1211
Db 2587533 AAAAAATAAATTAATAAATAAATAAATAAATTTTACTAACTCTTCATCTTCCAC 2587474

QY 1212 TTTTCATTTGGGAGTGACTAGTACTAGTAACTAACTAAATTTTACTAACTCTTCATCTTCCAC 2587474
Db 2587473 TATCATTTTAAATATTATTAACAATAATTTTAAACAATAAATAAATAAATTTCTAATTA 2587414

QY 1272 GATTTTGAAGCTTTTCTTAGGTTAAAAAACAAGTATATTACTAACCAATAAAGAAAAAC 1331
Db 2587413 AAATTAAATAATAAATAAACCCTAAAAAATAAATAAATAAATAAATAAATAAATAAATA 2587354

QY 1332 ATTTTGTGAAAAGAAATAAAGTTTACTGACCCCTTGTACAGATGGTCCCAATAATA 1391
Db 2587353 ACAATAACAAAATAAATAACAATTTTAAATAAATAAATAAATAAATAAATAAATAAATA 2587294

QY 1392 TACTGTAGAGATAGAGCAA 1412
Db 2587293 CAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2587273

RESULT 7
US-10-433-793-154
; Sequence 154, Application US/10433793
; Publication No. US20040142334A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Diagnose von mit Angiogenese assoziierten Krankheiten
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/433,793
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 212
; SEQ ID NO 154
; LENGTH: 20933
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-433-793-154

Query Match
Best Local Similarity 2.9%; Score 48.6; DB 17; Length 20933;
Matches 90; Conservative 0; Mismatches 69; Indels 0; Gaps 0;

QY 1091 TTTTCCATAAAATTAAGTAATCTTTTTCCTTAACCAATAAAATTTATGAAATCT 1150
Db 1180 TTTTATAATTAATGAAGATAATATTTTAAAGAAAATAGTAAAGAAATAAATCG 1239

QY 1151 TTTCCACATAGAAAAGTTAAATTTGATCAGCGATGGAAAATTTTGTACAAAAGCTAGGT 1210
Db 1240 TTTATAAAGATATAATTTTATTATAGATGTGAATAGTATTTTAAATATATTTAGTT 1299

QY 1211 ATTTTCATTTGGGAGTGACTAGTAACTAGTAAGTAAATA 1249
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||||| 1300 TTTTAAGTTGGAGTATAATAGTAATTTTAAATTTAA 1338

Db 1300 TTTTAAGTTGGAGTATAATAGTAATTTTAAATTTAA 1338

RESULT 8
US-09-938-842A-338/c
; Sequence 338, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 338
; LENGTH: 2958
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-338

Query Match
Best Local Similarity 2.9%; Score 47.8; DB 9; Length 2958;
Matches 115; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1228 ACTAGTAACCTAGTAAGTACTAACCAAGTATTTCTGATTTTGGATTTTGAAGCTTTTC 1287
Db 410 ATTAGCACTAGTACTAGTAAGTATTTTCTGATTTTGAAGCTTTTACAGGTTCTTATC 351

QY 1288 TTAGGTTAAAAAACAAGTATATTACTAAACAATAAAGAAAAAACAATTTCTGAAAAAGAGA 1347
Db 350 ATAAATAAAGAAAGGATAATATTACTAAATAGCCAAAAAACAACAGTAAATAGCAGA 291

QY 1348 AATAAAGTTTACTGGACCCCAATTTGTACAGATGGTCCCAATTAATATCTAGTAAGATAG 1407
Db 290 GAGAAAGGTTTGTGTCAAATTTAGTCATGAACCTCAATTATCAAAACGAGGTGAATGAC 231

QY 1408 AGCAATGGAAGTGAATTTGTTTACGTTGATCAATCGGAATGGTTCTT 1454
Db 230 AAAACAATCCTTCGTTGTTGTCAGTTCAACAGTAGCGGAGACACTT 184

RESULT 9
US-09-938-842A-338/c
; Sequence 338, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
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; SEQ ID NO 338
; LENGTH: 2958
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-338

Query Match 2.9%; Score 47.8; DB 11; Length 2958;
Best Local Similarity 50.7%; Pred. No. 1.2;
Matches 115; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1228 ACTAGTAACTAGTAAGTACTAACCAAGTCTCTGATTTGGATTTTGAAGCTTTTC 1287
DB 410 ATTAGCAACTAGTAGTAATAAGTGTTTTTAGTTTACAAAGTATTTTACAGGTTCTATC 351

QY 1288 TTAGGTTAAAAACACAGTATATTACTAAACAATAAAAGAAAAACATTTTGTGAAAAGAGA 1347
DB 350 ATAAATAAAAGAGGATAATATTACTTAATAGCCAAAAACACACACGTAATAATACAGA 291

QY 1348 AATAAAGTTTACTGGACCCCAATTGTACAGATGGTCCCATTAATAACTGATAGAAGATAG 1407
DB 290 GAGAAAGGTTTTTGTGCAAAATTAGTCATGAACCTCATTTATCAACGAGGTGAATGAC 231

QY 1408 AGCAATCGAAGTGATTTGTTCACGTGGTACAATCGAATGGTTCIT 1454
DB 230 AAAACAATCCTTGGTTGTGCAAGTTCACACAGTAGCGAGACACIT 184

RESULT 10
US-09-960-352-5785/c
; Sequence 5785, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagapban
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 5785
; LENGTH: 516
; TYPE: DNA
; ORGANISM: Bos taurus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (76), (90)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: 25-LIB3057-018-Q1-K1-G1
US-09-960-352-5785

Query Match 2.8%; Score 46.6; DB 9; Length 516;
Best Local Similarity 46.2%; Pred. No. 0.87;
Matches 154; Conservative 0; Mismatches 179; Indels 0; Gaps 0;

QY 1098 ATAAATTAAGTAAATCTTTTTTTCCTAACCAATAAAATTTATTGAAATCTTTCCAA 1157
DB 434 ATAAAAATTAATAAAAAAATAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 375

QY 1158 CCATAGAAAGTTAAATTTGTACGCGATGCGAAATTTTGTACAAAGCTAGGTATTCAT 1217
DB 374 TAAATAAAAAAATAAAAAATAAAAAAATAAAAAATAAAAAAATAAAAAAATAAAAAA 315

QY 1218 TTGGAGTGTACTAGTACTAGTACTAACCAAGATGAGTTTCTCATTTTGGATTTT 1277
DB 314 AAAAAAATAAAAAATAAAAAAATAAAAAAATAAAAAATAAAAAAATAAAAAAATAAA 255

QY 1278 GAAGCTTTTCTTAGGTTAAAAACAAGTATATTACTAACCAATAAAAGAAAAACATTTTG 1337
DB 254 AAAAATAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAA 195

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Db 172 GCATCACATCTAAGGAGTATTAAGGAGAGATTTAATCCGTAAATAAGGACAAATT 231
QY 1254 AATGAGTTTCTGATTTTGGATTTTGAAGCTTTTCTTAGGTTTAAAAACAAGTATATTACT 1313
Db 232 TATGAATATATAACATAGATGCGATGTCGATTTCTACGGAAGAAATATTTCTCTGGGA 291
QY 1314 AACAAATAAGAAAGAAACATTTTGTGAAAAGAGAAAT 1350
Db 292 AAAAATGAATACATTAAGATTTGTAAGAGAGTGAAT 328

RESULT 12
US-10-021-323-8212
; Sequence 8212, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 8212
; LENGTH: 610
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3828-007-Q1-K6-G2
US-10-021-323-8212

Query Match 2.8%; Score 46.4; DB 17; Length 610;
Best Local Similarity 53.3%; Pred. No. 1.1;
Matches 98; Conservative 0; Mismatches 86; Indels 0; Gaps 0;
QY 1169 TTAATTTGATCAGCGATGGAATTTTGTACAAAGCTAGTATTTTCATTTGGAGTGTA 1228
Db 152 TTGAGTTCAATGCTAGTATGGAATTTTGTCCAGATTTTGAATTTTAAATTTCTCATGTT 211
QY 1229 CTAGTAAGTACTAGTACTACCAAGATGATTTTCTGATTTTGGATTTTGAAGCTTTTCT 1288
Db 212 ATAAAAACATTAATGTGAATTCACATTTTATTTGTTATGTTTCTAGTGTTTATCTTAT 271
QY 1289 TAGGTTAAAAACAAGTATATTACTAAACAATAAGAAAAACATTTTGTGAAAAAGAGAA 1348
Db 272 TAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAA 331
QY 1349 ATAA 1352
Db 332 AAAA 335

RESULT 13
US-10-240-453-259
; Sequence 259, Application US/10240453
; Publication No. US20030148326A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA
; FILE REFERENCE: 5013.1009
; CURRENT APPLICATION NUMBER: US/10/240,453
; PRIOR FILING DATE: 2002-10-02
; OTHER INFORMATION: PCT/EP01/039973

; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; NUMBER OF SEQ ID NOS: 350
; SEQ ID NO 259
; LENGTH: 7047
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; NAME/KEY: unsure
; LOCATION: (182)
US-10-240-453-259

Query Match 2.8%; Score 46.4; DB 15; Length 7047;
Best Local Similarity 49.7%; Pred. No. 4.1;
Matches 145; Conservative 0; Mismatches 146; Indels 1; Gaps 1;
QY 1084 TTACAGCTTTTCCATAAAATTAAGTAAATCTTTTTCGCTAACCAATAAAATTTATT 1143
Db 3514 TTATATATGATATATGTTATGTTTGTAGGAATGTTATTTTGTAGTATTTTGTAGAGAA 3573
QY 1144 GAAATCTTTCCAAACCATAGAAAAGTTAAATTTTCATCAGCGATGGAATTTTGTACAAA 1203
Db 3574 GAAATTTGGTTTATATA-AAATTTGTATAGAAATTTTATAGTAGTTTATTTGTAA 3632
QY 1204 GCTAGGTATTTTCATTTGGGAGTGTACTAGTAAGTACTTAACCAAGATGAGTTTC 1263
Db 3633 TGTGCGAAATTTCTAGGTAATTTATATATTTTGTAGTGGTTAAATAAATTTGTTGGT 3692
QY 1264 TGATTTTGGATTTTGAAGCTTTTCTAGGTTAAAAACAAGTATTTACTAAACAATAAA 1323
Db 3693 TTAATGTTATTTATGGAATTTTGTATTTTGTATTAATAAATTTGATTTTATGATTTATA 3752
QY 1324 AGAAAAACATTTTGTGAAAAGAGAAAATAAAGTTTACTGGACCCCATTTGTACA 1375
Db 3753 ATAATTTAATAAATTTTAAGGAATTAATGTTGAGTGAATAAATTTATDAAA 3804

RESULT 14
US-10-239-676-28/c
; Sequence 28, Application US/10239676
; Publication No. US20030082609A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
; FILE REFERENCE: 5013.1003
; CURRENT APPLICATION NUMBER: US/10/239,676
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: PCT/EP01/039968
; DE 10019058.8
; DE 10019173.8
; DE 10032529.7
; DE 10043826.1
; PRIOR FILING DATE: 2001-04-06
; 2000-04-06
; 2000-04-07
; 2000-06-30
; 2000-09-01
; NUMBER OF SEQ ID NOS: 228
; SEQ ID NO 28
; LENGTH: 17848
; TYPE: DNA
; ORGANISM: Artificial Sequence

```
FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (6075, 8510, 8516, 8680, 9019, 15666)
US-10-239-676-28

Query Match      2.8%; Score 46.4; DB 15; Length 17848;
Best Local Similarity 45.6%; Pred. No. 6.8;
Matches 164; Conservative 0; Mismatches 196; Indels 0; Gaps 0;

QY 1088 AGCTTTTCCATAAAATTAAGTAAATCTTTTTCCTTAACCAATAAAAAATTATTGAAA 1147
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1047 AACTTAAAAAACAATTTTAAATATATAAAATAAAAACCTAATTAATAATAATTCAA 9988
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1148 ATCTTTCCACCATAGAAAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAAGCTA 1207
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9987 AAAAAATAAAAAATAAAAAATAAAATTAATACTAAAAATTTTAAAAAATAAAATC 9928
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1208 GGTATTTTCATTTGGGAGTGTAAGTAACTAGTAACTAGTAACTAGTAACTAGTAACTAGT 1267
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9927 ATAAATTAATACTAAATTAATAAAATAAAATTAATACTAAATTAATACTAAATTAATACT 9868
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1268 TTTGGATTTGAAGCTTTTCTTAGGTTAAAAAACAAGTATATTAATACTAAATTAATACT 1327
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9867 TATAAAAAAATAAAAAAATAATTTTAAATTAACAAAAATAATCTAATAAAAAAATAAATA 9808
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1328 AAACATTTTGTGAAAAGAGAAATAAAGTTTACTGGACCCCATTTGTACAGATGTTCCATA 1387
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9807 AATTAAATAATCGAAACAAAAATAAATTTACTAAAAATAATTTTAAACAAAAAATAAATA 9748
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1388 ATAACTACTGATAGAGATAGCAATGGAAGTGATTTCTCAGCGTGATCAATCGGAAT 1447
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9747 AAATCTATTACCAATAAAAAATAATTTAATCTTAATAAAAAACAATTCATCCCTAAT 9688
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 15
US-10-240-453-38/c
; Sequence 38, Application US/10240453
; Publication No. US20030148326A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA
; TITLE OF INVENTION: Transcription
; TITLE OF INVENTION: By Means of Assessing the Methylation Status of Genes Associated
; FILE REFERENCE: 5013.1009
; CURRENT APPLICATION NUMBER: US/10/240,453
; CURRENT FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03973
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 350
; SEQ ID NO 38
; LENGTH: 17848
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (6075, 8510, 8516, 8680, 9019, 15666)
US-10-240-453-38
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Query Match      2.8%; Score 46.4; DB 15; Length 17848;
Best Local Similarity 45.6%; Pred. No. 6.8;
Matches 164; Conservative 0; Mismatches 196; Indels 0; Gaps 0;

QY 1088 AGCTTTTCCATAAAATTAAGTAAATCTTTTTCCTTAACCAATAAAAAATTATTGAAA 1147
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1047 AACTTAAAAAACAATTTTAAATATATAAAATAAAAACCTAATTAATAATAATTCAA 9988
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1148 ATCTTTCCACCATAGAAAAAGTTAAATTTGATCAGCGATGGAATTTTGTACAAAGCTA 1207
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9987 AAAAAATAAAAAATAAAAAATAAAATTAATACTAAAAATTTTAAAAAATAAAATC 9928
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1208 GGTATTTTCATTTGGGAGTGTAAGTAACTAGTAACTAGTAACTAGTAACTAGTAACTAGT 1267
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9927 ATAAATTAATACTAAATTAATAAAATAAAATTAATACTAAATTAATACTAAATTAATACT 9868
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1268 TTTGGATTTGAAGCTTTTCTTAGGTTAAAAAACAAGTATATTAATACTAAATTAATACT 1327
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9867 TATAAAAAAATAAAAAAATAATTTTAAATTAACAAAAATAATCTAATAAAAAAATAAATA 9808
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1328 AAACATTTTGTGAAAAGAGAAATAAAGTTTACTGGACCCCATTTGTACAGATGTTCCATA 1387
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9807 AATTAAATAATCGAAACAAAAATAAATTTACTAAAAATAATTTTAAACAAAAAATAAATA 9748
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1388 ATAACTACTGATAGAGATAGCAATGGAAGTGATTTCTCAGCGTGATCAATCGGAAT 1447
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 9747 AAATCTATTACCAATAAAAAATAATTTAATCTTAATAAAAAACAATTCATCCCTAAT 9688
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Search completed: August 7, 2004, 10:17:59
Job time : 815.105 secs

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OM nucleic - nucleic search, using sw model

Run on: August 7, 2004, 06:55:53 ; Search time 129.376 Seconds
(without alignments)
7193.420 Million cell updates/sec

Title: US-09-938-842A-3729

Perfect score: 1677

Sequence: 1 ggtaagcgcttttactatg.....tttctcagctatattta 1677

Scoring table: OLIGO NUC

Gapop_60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:*
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5: /cgn2_6/prodata/2/ina/PCBUS COMB.seq:*
6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	* Match	Length	DB	ID	Description
C 1	19	1.1	400	4	US-08-956-171E-3898	Sequence 3898, Ap
C 2	19	1.1	7563	4	US-08-956-171E-33	Sequence 33, Appl
C 3	18	1.1	832	1	US-08-340-539A-6	Sequence 6, Appl
C 4	18	1.1	832	2	US-08-461-592B-6	Sequence 6, Appl
C 5	18	1.1	876	4	US-09-198-119C-48	Sequence 48, Appl
C 6	18	1.1	877	4	US-09-198-119C-72	Sequence 72, Appl
C 7	18	1.1	887	4	US-09-198-119C-68	Sequence 68, Appl
C 8	18	1.1	1028	3	US-09-249-180-1	Sequence 1, Appl
C 9	18	1.1	1132	4	US-09-198-119C-56	Sequence 56, Appl
C 10	18	1.1	1163	3	US-09-249-180-5	Sequence 5, Appl
C 11	18	1.1	1185	4	US-09-134-000C-927	Sequence 927, Ap
C 12	18	1.1	1380	4	US-09-543-681A-2115	Sequence 2115, Ap
C 13	18	1.1	2148	4	US-09-328-352-2704	Sequence 2704, Ap
C 14	18	1.1	269223	4	US-09-596-002-41	Sequence 41, Appl
C 15	18	1.1	580073	4	US-08-545-528D-1	Sequence 1, Appl
C 16	18	1.1	640681	4	US-09-790-988-1	Sequence 1, Appl
C 17	18	1.1	640681	4	US-09-790-988-1	Sequence 1, Appl
C 18	18	1.1	786431	4	US-09-751-389-3	Sequence 3, Appl
C 19	18	1.1	4403765	3	US-09-103-840A-2	Sequence 2, Appl
C 20	18	1.1	4411529	3	US-09-103-840A-1	Sequence 1, Appl
C 21	17	1.0	28	1	US-08-120-827-71	Sequence 71, Appl
C 22	17	1.0	28	1	US-08-478-675-71	Sequence 71, Appl
C 23	17	1.0	210	4	US-09-134-001C-2588	Sequence 2588, Ap
C 24	17	1.0	241	4	US-09-389-681-400	Sequence 400, App
C 25	17	1.0	241	4	US-09-620-405B-400	Sequence 400, App
C 26	17	1.0	241	4	US-09-433-828B-400	Sequence 400, App
C 27	17	1.0	241	4	US-09-604-287A-400	Sequence 400, App

28	17	1.0	241	4	US-09-834-759-400	Sequence 400, App
C 29	17	1.0	267	4	US-09-313-294A-1630	Sequence 1630, Ap
30	17	1.0	326	1	US-08-525-596B-7	Sequence 7, Appl
31	17	1.0	326	3	US-09-177-860A-7	Sequence 7, Appl
32	17	1.0	326	4	US-09-378-238-7	Sequence 7, Appl
33	17	1.0	326	4	US-09-451-501-7	Sequence 7, Appl
34	17	1.0	326	4	US-09-629-938-7	Sequence 7, Appl
35	17	1.0	326	4	US-09-686-344-7	Sequence 7, Appl
36	17	1.0	414	4	US-09-621-976-9913	Sequence 9913, Ap
37	17	1.0	540	4	US-09-134-000C-3232	Sequence 3232, Ap
C 38	17	1.0	609	4	US-09-322-357-50	Sequence 50, Appl
39	17	1.0	675	4	US-09-489-039A-6750	Sequence 6750, Ap
40	17	1.0	835	4	US-09-171-209-42	Sequence 42, Appl
C 41	17	1.0	938	4	US-09-843-472-2	Sequence 2, Appl
42	17	1.0	1128	4	US-09-252-149B-1	Sequence 1, Appl
43	17	1.0	1128	4	US-09-451-501-20	Sequence 20, Appl
44	17	1.0	1128	4	US-09-451-501-26	Sequence 26, Appl
45	17	1.0	1128	4	US-09-686-344-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1

US-08-956-171E-3898/c
; Sequence 3898, Application US/08956171E
; Patent No. 6593114

GENERAL INFORMATION:

APPLICANT: Charles Kunsch
Gil H. Choi
Patrick S. Dillon
Craig A. Rosen
Steven C. Barash
Michael R. Fannon
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5256
CORRESPONDENCE ADDRESS:
ADDRESSER: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/956,171E
FILING DATE: 20-Oct-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/009,861
FILING DATE: January 5, 1996
APPLICATION NUMBER: 08/781,986
FILING DATE: January 3, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Mark J. Hyman
REGISTRATION NUMBER: 46,789
REFERENCE/DOCKET NUMBER: PB248P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (240) 314-1224
TELEFAX: (301) 309-8439
INFORMATION FOR SEQ ID NO: 3898:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 3898:

US-08-956-171E-3898

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Query Match 1.1%; Score 19; DB 4; Length 400;
Best Local Similarity 100.0%; Pred. No. 9.2; 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;

QY 49 TTGTTGGAATGCTTTTCA 67
Db 129 TTGTTGGAATGCTTTTCA 111

RESULT 2
US-08-956-171E-33/c
; Sequence 33, Application US/08956171E
; Patent No. 6593114
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; GIL H. Choi
; Patrick S. Dillon
; Craig A. Rosen
; Steven C. Barash
; Michael R. Fannon
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5256
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,171E
; FILING DATE: 20-Oct-1997
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,861
; FILING DATE: January 5, 1996
; APPLICATION NUMBER: 08/781,986
; FILING DATE: January 3, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mark J. Hyman
; REGISTRATION NUMBER: 46,789
; REFERENCE/DOCKET NUMBER: PB248P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (240) 314-1224
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7563 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-08-956-171E-33

Query Match 1.1%; Score 19; DB 4; Length 7563;
Best Local Similarity 100.0%; Pred. No. 9.1;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 TTGTTGGAATGCTTTTCA 67
Db 2292 TTGTTGGAATGCTTTTCA 2274

RESULT 3
US-08-340-539A-6
; Sequence 6, Application US/08340539A
; Patent No. 5808025
; GENERAL INFORMATION:
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```
; APPLICANT: Tedder, Thomas F.
; APPLICANT: Kansas, Geoffrey S.
; TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
; TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & NEAVE
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10020
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,539A
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/008,459
; FILING DATE: 25-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Gunnison, Jane
; REGISTRATION NUMBER: 38,479
; REFERENCE/DOCKET NUMBER: CG-104 CON
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-596-9000
; TELEFAX: 212-596-9090
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 832 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-340-539A-6

Query Match 1.1%; Score 18; DB 1; Length 832;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 189 TCTATGCTCTAAAGAAATG 206
Db 86 TCTATGCTCTAAAGAAATG 103

RESULT 4
US-08-461-592B-6
; Sequence 6, Application US/08461592B
; Patent No. 5834425
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; APPLICANT: Kansas, Geoffrey S.
; TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
; TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
; STREET: Ten Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/461,592B
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;; FILING DATE:
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/340,539
;; FILING DATE: 16-NOV-1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/008,459
;; FILING DATE: 25-JAN-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: James F. Haley, Jr.
;; REGISTRATION NUMBER: 27,794
;; REFERENCE/DOCKET NUMBER: CG-104
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 596-9000
;; TELEFAX: (212) 596-9030
;; TELEX: 14-8367
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
US-08-461-592B-6

Query Match 1.1%; Score 18; DB 2; Length 832;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 189 TCTATGCTTAAGAAATG 206
|||||
DB 86 TCTATGCTTAAGAAATG 103

RESULT 5

US-09-198-119C-48/c
; Sequence 48, Application US/09198119C
; Patent No. 6417428
; GENERAL INFORMATION:
; APPLICANT: Thomashow, Michael
; APPLICANT: Stockinger, Eric
; APPLICANT: Jaglo-Ottosen, Kirsten
; APPLICANT: Gilmour, Sarah
; APPLICANT: Zarka, Daniel
; APPLICANT: Jiang, Cai-Zhong
; TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance
; FILE REFERENCE: 19117.713 Seq List
; CURRENT FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 08/706,270
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: US 09/018,233
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,816
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,235
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,575
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,227
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,234
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 48
; LENGTH: 876
; TYPE: DNA
; ORGANISM: Brassica napus
; FEATURE:
; OTHER INFORMATION: bncBF2 gene

US-09-198-119C-48

Query Match 1.1%; Score 18; DB 4; Length 876;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1364 CCCCATTTGACAGATGGT 1381
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DB 815 CCCCATTTGACAGATGGT 798

RESULT 6

US-09-198-119C-72/c
; Sequence 72, Application US/09198119C
; Patent No. 6417428
; GENERAL INFORMATION:
; APPLICANT: Thomashow, Michael
; APPLICANT: Stockinger, Eric
; APPLICANT: Jaglo-Ottosen, Kirsten
; APPLICANT: Gilmour, Sarah
; APPLICANT: Zarka, Daniel
; APPLICANT: Jiang, Cai-Zhong
; TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance
; FILE REFERENCE: 19117.713 Seq List
; CURRENT APPLICATION NUMBER: US/09/198,119C
; CURRENT FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 08/706,270
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: US 09/018,233
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,816
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,235
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,575
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,227
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,234
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 72
; LENGTH: 877
; TYPE: DNA
; ORGANISM: Brassica oleracea
; FEATURE:
; OTHER INFORMATION: bocBF5 gene
US-09-198-119C-72

Query Match 1.1%; Score 18; DB 4; Length 877;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1364 CCCCATTTGACAGATGGT 1381
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DB 815 CCCCATTTGACAGATGGT 798

RESULT 7

US-09-198-119C-68/c
; Sequence 68, Application US/09198119C
; Patent No. 6417428
; GENERAL INFORMATION:
; APPLICANT: Thomashow, Michael
; APPLICANT: Stockinger, Eric
; APPLICANT: Jaglo-Ottosen, Kirsten
; APPLICANT: Gilmour, Sarah
; APPLICANT: Zarka, Daniel
; APPLICANT: Jiang, Cai-Zhong
; TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance
; FILE REFERENCE: 19117.713 Seq List
; CURRENT APPLICATION NUMBER: US/09/198,119C

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; CURRENT FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 08/706,270
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: US 09/018,233
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,816
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,235
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,575
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,227
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,234
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 68
; LENGTH: 887
; TYPE: DNA
; ORGANISM: Brassica oleracea
; FEATURE:
; OTHER INFORMATION: boCBF3 gene
US-09-198-119C-68

Query Match 1.1% Score 18; DB 4; Length 887;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1364 CCCCATTCACAGATGGT 1381
Db 822 CCCCATTCACAGATGGT 805

RESULT 8
US-09-249-180-1/c
; Sequence 1, Application US/09249180
; Patent No. 6268548
; GENERAL INFORMATION:
; APPLICANT: Elthon, Thomas E
; APPLICANT: Lund, Adrian A
; APPLICANT: Bhatramakki, Dinakar
; APPLICANT: Rhoads, David M.
; TITLE OF INVENTION: Isolation and Characterization of Heat Shock Protein
; FILE REFERENCE: UNW52819
; CURRENT APPLICATION NUMBER: US/09/249,180
; CURRENT FILING DATE: 1999-02-12
; EARLIER APPLICATION NUMBER: 60/076/014
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Created in PatentIn Ver. 2.0, Edited in WordPerfect 6.1
; SEQ ID NO 1
; LENGTH: 1028
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (79)..(735)
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1028)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (424)..(693)
; OTHER INFORMATION: Heat Shock Domain
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1)..(328)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (329)..(1028)
; FEATURE:
; NAME/KEY: Poly A_site

; CURRENT FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 08/706,270
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: US 09/018,233
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,816
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,235
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,575
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,227
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,234
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 56
; LENGTH: 1132
; TYPE: DNA
; ORGANISM: Brassica napus
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; LOCATION: (1028)..(1028)
; FEATURE:
; NAME/KEY: mRNA
; LOCATION: (1)..(1028)
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(1028)
; OTHER INFORMATION: Zea Mays L., Line B73
; FEATURE:
; NAME/KEY: transit peptide
; LOCATION: (79)..(213)
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (736)..(1028)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(78)
; PUBLICATION INFORMATION:
; AUTHORS: Lund, Adrian A.
; AUTHORS: Blum, Paul H.
; AUTHORS: Bhatramakki, Dinakar
; AUTHORS: Elthon, Thomas E.
; TITLE: Heat-Stress Response of Maize Mitochondria
; JOURNAL: Plant Physiol.
; VOLUME: 116
; PAGES: 1097-1110
; DATE: 1998-03-00
US-09-249-180-1

Query Match 1.1% Score 18; DB 3; Length 1028;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1391 ATACTGATAGAGATAGA 1408
Db 880 ATACTGATAGAGATAGA 863

RESULT 9
US-09-198-119C-56/c
; Sequence 56, Application US/09198119C
; Patent No. 6417428
; GENERAL INFORMATION:
; APPLICANT: Thomashow, Michael
; APPLICANT: Stockinger, Eric
; APPLICANT: Jaglo-Ottosen, Kirsten
; APPLICANT: Gilmour, Sarah
; APPLICANT: Zarka, Daniel
; APPLICANT: Jiang, Cai-Zhong
; TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance
; FILE REFERENCE: 19117.713 Seq List
; CURRENT APPLICATION NUMBER: US/09/198,119C
; CURRENT FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 08/706,270
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: US 09/018,233
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,816
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,235
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/017,575
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,227
; PRIOR FILING DATE: 1998-02-03
; PRIOR APPLICATION NUMBER: US 09/018,234
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 56
; LENGTH: 1132
; TYPE: DNA
; ORGANISM: Brassica napus
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RESULT 13
US-09-328-352-2704/c
; Sequence 2704, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 2704
; LENGTH: 2148
; TYPE: DNA
; ORGANISM: Acinetobacter baumannii
US-09-328-352-2704
Query Match 1.1%; Score 18; DB 4; Length 2148;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 363 ATGAATGGTATGCTGATG 380
|||||
Db 1263 ATGAATGGTATGCTGATG 1246

RESULT 14
US-09-596-002-41/c
; Sequence 41, Application US/09596002
; Patent No. 6632636
; GENERAL INFORMATION:
; APPLICANT: Lagace, Robert, E.
; APPLICANT: Patterson, Chandra
; APPLICANT: Berg, Kim, L.
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME
; CURRENT APPLICATION NUMBER: US/09/596,002
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/140,121
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PERL Program
; SEQ ID NO 41
; LENGTH: 269223
; TYPE: DNA
; ORGANISM: Moraxella catarrhalis
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte template ID No. 6632636 41
; PUBLICATION INFORMATION:
US-09-596-002-41
Query Match 1.1%; Score 18; DB 4; Length 269223;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1492 CCGCATCAAAAAGCGTTG 1509
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Db 23955 CCGCATCAAAAAGCGTTG 23938

RESULT 15
US-08-545-528D-1
; Sequence 1, Application US/08545528D
; Patent No. 6537773
; GENERAL INFORMATION:
; APPLICANT: Fraser et al.
; TITLE OF INVENTION: Nucleotide Sequence of the Mycoplasma Genitalium Genome, Fragment
; Patent No. 6537773
; TITLE OF INVENTION: Thereof, and Uses Thereof
; FILE REFERENCE: PB193PI
; CURRENT APPLICATION NUMBER: US/08/545,528D
; CURRENT FILING DATE: 1995-10-19
; PRIOR APPLICATION NUMBER: US 08/488,018
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: US 08/473,545
; PRIOR FILING DATE: 1995-06-07
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 580073
; TYPE: DNA
; ORGANISM: Mycoplasma genitalium
US-08-545-528D-1
Query Match 1.1%; Score 18; DB 4; Length 580073;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1332 ATTTTGTGAAAAGAGAAA 1349
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Db 355690 ATTTTGTGAAAAGAGAAA 355707

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OM nucleic - nucleic search, using sw model

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11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1677	100.0	1677	9	US-09-938-842A-3729
2	1677	100.0	1677	11	Sequence 3729, Ap
3	23	1.4	174448	13	US-09-938-842A-3729
4	21	1.3	330	10	US-10-087-192-148
5	21	1.3	394	10	US-09-930-213-54
6	21	1.3	406	13	US-09-803-719-707
7	21	1.3	407	10	US-10-424-599-103891
8	21	1.3	2000	10	US-09-803-719-1633
9	21	1.3	108359	15	US-10-191-807-3
10	20	1.2	627	13	US-10-027-632-54726
11	20	1.2	627	13	US-10-027-632-294129
12	20	1.2	627	16	US-10-027-632-54726
13	20	1.2	627	16	US-10-027-632-294129
14	20	1.2	628	17	US-10-437-963-9063

c 15	20	1.2	768	9	US-09-815-242-9987	Sequence 9987, Ap
c 16	20	1.2	768	13	US-10-282-122A-39631	Sequence 39631, A
c 17	20	1.2	769	13	US-10-282-122A-38869	Sequence 38869, A
c 18	20	1.2	1793	13	US-10-424-599-63060	Sequence 63060, A
c 19	20	1.2	6059	17	US-10-437-963-70677	Sequence 70677, A
c 20	20	1.2	6849	17	US-10-437-963-101721	Sequence 101721, A
c 21	19	1.1	199	15	US-10-029-386-14103	Sequence 14103, A
c 22	19	1.1	281	13	US-10-085-783A-18166	Sequence 18166, A
c 23	19	1.1	281	16	US-10-242-535A-18166	Sequence 18166, A
c 24	19	1.1	307	17	US-10-437-963-26666	Sequence 26666, A
c 25	19	1.1	377	9	US-09-983-965-5678	Sequence 5678, Ap
c 26	19	1.1	400	8	US-08-781-986A-3898	Sequence 3898, Ap
c 27	19	1.1	400	13	US-10-329-624-3898	Sequence 3898, Ap
c 28	19	1.1	502	17	US-10-437-963-55251	Sequence 55251, A
c 29	19	1.1	547	15	US-10-029-386-398	Sequence 398, App
c 30	19	1.1	588	13	US-10-027-632-88862	Sequence 88862, A
c 31	19	1.1	588	13	US-10-027-632-88863	Sequence 88863, A
c 32	19	1.1	588	16	US-10-027-632-88862	Sequence 88862, A
c 33	19	1.1	588	16	US-10-027-632-88863	Sequence 88863, A
c 34	19	1.1	598	13	US-10-027-632-230239	Sequence 230239, A
c 35	19	1.1	598	13	US-10-027-632-230240	Sequence 230240, A
c 36	19	1.1	598	16	US-10-027-632-230239	Sequence 230239, A
c 37	19	1.1	598	16	US-10-027-632-230240	Sequence 230240, A
c 38	19	1.1	652	13	US-10-027-632-133067	Sequence 133067, A
c 39	19	1.1	652	16	US-10-027-632-133067	Sequence 133067, A
c 40	19	1.1	672	13	US-10-027-632-34038	Sequence 34038, A
c 41	19	1.1	672	16	US-10-027-632-34038	Sequence 34038, A
c 42	19	1.1	903	9	US-09-815-242-2975	Sequence 2975, Ap
c 43	19	1.1	903	13	US-10-282-122A-5549	Sequence 5549, Ap
c 44	19	1.1	909	9	US-09-815-242-4338	Sequence 4338, Ap
c 45	19	1.1	921	9	US-09-815-242-8202	Sequence 8202, Ap

ALIGNMENTS

RESULT 1
US-09-938-842A-3729
; Sequence 3729, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Krepis, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SAME, AND METHODS OF USE
; CURRENT APPLICATION NUMBER: SCRIPI300-3
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; LENGTH: 1677
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3729

Query Match 100.0%; Score 1677; DB 9; Length 1677;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1677; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGTTAGCGTTTACTTATGCTTTATATGCAACGGAAGAAATATGCAATTTGGTAATGC 60
Db 1 GGTTAGCGTTTACTTATGCTTTATATGCAACGGAAGAAATATGCAATTTGGTAATGC 60
Qy 61 TTTTTCAGATCATCAAGGCTCCTACAGATTTCTTAGGGAATGTTTCAGGCTTTTGTGA 120

Db 61 TTTTTCAGATCATCAAGGCTCCTACAGATTTCTTAGGAATGGTTTCAGGCTTTTGTTA 120
QY 121 GAAATTGTGTTTATTTGCAACAGGTAGAGNACATAACCATAGACAGATCTATCTGAAGAGA 180
Db 121 GAAATTGTGTTTATTTGCAACAGGTAGAGNACATAACCATAGACAGATCTATCTGAAGAGA 180
QY 181 TAAAGCTTCTCTATGTCTTAAAGAAATGGACCGGATAGCAATATAAACAAGCATCATTAAGAT 240
Db 181 TAAAGCTTCTCTATGTCTTAAAGAAATGGACCGGATAGCAATATAAACAAGCATCATTAAGAT 240
QY 241 TAAATGGTTTGAAGAAATPACACTTATTTATGTGAATTTGTGTGTTAGTGAAGAT 300
Db 241 TAAATGGTTTGAAGAAATPACACTTATTTATGTGAATTTGTGTGTTAGTGAAGAT 300
QY 301 AAAACATCGGAATCCAAACCTCAAATTTACCAATCAGCCCAAATATTGTATGCTGGCG 360
Db 301 AAAACATCGGAATCCAAACCTCAAATTTACCAATCAGCCCAAATATTGTATGCTGGCG 360
QY 361 TAAATGAATGGTATGCTGTAGGTAGGCAAAAGTTGGTGGCTGGGAAATTAACAACATTATC 420
Db 361 TAAATGAATGGTATGCTGTAGGTAGGCAAAAGTTGGTGGCTGGGAAATTAACAACATTATC 420
QY 421 CCTGTGTGTGACCGGAATCTGTAAATCGGAAAGGTGGAAACCACTGGTTTAACTTTT 480
Db 421 CCTGTGTGTGACCGGAATCTGTAAATCGGAAAGGTGGAAACCACTGGTTTAACTTTT 480
QY 481 AAGCCTAAAGGTTACTACCGGTTTGACCGGTTTATAATTTGGTGTGTTAAATCTAATCCC 540
Db 481 AAGCCTAAAGGTTACTACCGGTTTGACCGGTTTATAATTTGGTGTGTTAAATCTAATCCC 540
QY 541 GGATCGGTTTGTGTTGTTAAATCTCAAGGCCACGTTATCGCCAAATTTTGGATTTTGAAGTG 600
Db 541 GGATCGGTTTGTGTTGTTAAATCTCAAGGCCACGTTATCGCCAAATTTTGGATTTTGAAGTG 600
QY 601 GGTAGGAATGTGGGGTCCAAATAGTTGGGCTTAGCCCTCAACAATGTGTGGAATCGAAG 660
Db 601 GGTAGGAATGTGGGGTCCAAATAGTTGGGCTTAGCCCTCAACAATGTGTGGAATCGAAG 660
QY 661 AGAGTAGGTCAGCTCAGGCCACATTCACATTTTCTGTTTCTAGCTTCTTCTTTCTG 720
Db 661 AGAGTAGGTCAGCTCAGGCCACATTCACATTTTCTGTTTCTAGCTTCTTCTTTCTG 720
QY 721 TGCTTACGCTCCCTCTTCTGCTCGGTATGTAACAAGTAGCATAGTGGTTCAAA 780
Db 721 TGCTTACGCTCCCTCTTCTGCTCGGTATGTAACAAGTAGCATAGTGGTTCAAA 780
QY 781 CCGGAAACAGTACCAACGAATCAAAATAAGTTTGAATCGGTTACATCTAGTTACCGTCG 840
Db 781 CCGGAAACAGTACCAACGAATCAAAATAAGTTTGAATCGGTTACATCTAGTTACCGTCG 840
QY 841 AACTTACAATCATTTTCGATTCTTGATCTGATTTCTAGTTTCGGTTTGTATGTTTAAAT 900
Db 841 AACTTACAATCATTTTCGATTCTTGATCTGATTTCTAGTTTCGGTTTGTATGTTTAAAT 900
QY 901 CCGGATTGTACAAGTACACAAGTACATAAGTATCGGTATATGTATGTGACCGGTTTAAATC 960
Db 901 CCGGATTGTACAAGTACACAAGTACATAAGTATCGGTATATGTATGTGACCGGTTTAAATC 960
QY 961 AAGGACGGACGATAGAGGATTTTGAATCTCGGAAGAGGATTAATCCATAGACACTA 1020
Db 961 AAGGACGGACGATAGAGGATTTTGAATCTCGGAAGAGGATTAATCCATAGACACTA 1020
QY 1021 ATTAGCTTTTGTGGCGAGCCTTGACCTACATTAATGGGTCACCAACCCCAAGTATG 1080
Db 1021 ATTAGCTTTTGTGGCGAGCCTTGACCTACATTAATGGGTCACCAACCCCAAGTATG 1080
QY 1081 GCGTTACAGCTTTTCCATAAAATTAAGTAAATCTTTTGTGCTTAACCAATAAAAT 1140
Db 1081 GCGTTACAGCTTTTCCATAAAATTAAGTAAATCTTTTGTGCTTAACCAATAAAAT 1140
QY 1141 ATTGAAAATCTTCCAAACCATAGAAAAGTTAAATTTGATCAGCGATGGAATTTTGTAC 1200
Db 1141 ATTGAAAATCTTCCAAACCATAGAAAAGTTAAATTTGATCAGCGATGGAATTTTGTAC 1200

QY 1201 AAAAGCTAGTATTTTCATTTGGAGTGTACTAGTAACTAGTAAGTACTAACCAAGATGAGT 1260
Db 1201 AAAAGCTAGTATTTTCATTTGGGAGTGTACTAGTAACTAGTAAGTACTAACCAAGATGAGT 1260
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Db 1261 TTCTGATTTTGGATTTTGAAGCTTTTCTTAGGTTAAAAACAAGTATATTACTATAACAAT 1320
QY 1321 AAAAGAAAACATTTTGTGAAAAGAGAAATAAAGTTTACTGTGACCCCATTTGTACAGATCG 1380
Db 1321 AAAAGAAAACATTTTGTGAAAAGAGAAATAAAGTTTACTGTGACCCCATTTGTACAGATCG 1380
QY 1381 TCCCATATAATACTCATAGAGAATAGAGCAATGGAAGTGATTTTGTTCACGTGGTACAA 1440
Db 1381 TCCCATATAATACTCATAGAGAATAGAGCAATGGAAGTGATTTTGTTCACGTGGTACAA 1440
QY 1441 TCGGAATGGTTCTTTTAAAGCTCATCGAACACATCAGGACCGTTGATTTTCCCGCATCAA 1500
Db 1441 TCGGAATGGTTCTTTTAAAGCTCATCGAACACATCAGGACCGTTGATTTTCCCGCATCAA 1500
QY 1501 AAAGCGTTGAATPACTATTCTCACTTGTGTTTCTGCTCTCTATATATATATCTCTGACGATC 1560
Db 1501 AAAGCGTTGAATPACTATTCTCACTTGTGTTTCTGCTCTCTATATATATATCTCTGACGATC 1560
QY 1561 ACATTTAGTAAATCTCCTTGGACGTGTACGCGGTTAAAAAGATCTTTCCCATTTGATCC 1620
Db 1561 ACATTTAGTAAATCTCCTTGGACGTGTACGCGGTTAAAAAGATCTTTCCCATTTGATCC 1620
QY 1621 GCTTTTAAACACTCTCGTCTCATCTCCACCGTCGGTTTCTCTCAGCTATATTTTA 1677
Db 1621 GCTTTTAAACACTCTCGTCTCATCTCCACCGTCGGTTTCTCTCAGCTATATTTTA 1677

RESULT 2

US-09-938-842a-3729
; Sequence 3729, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPT300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3729
; LENGTH: 1677
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842a-3729

Query Match 100.0%; Score 1677; DB 11; Length 1677;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1677; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTAAACGGTTTACTTATGTTTATATGCAACGGAAGAATATTGCCATTGTTGGAATGC 60
Db 1 GGTAAACGGTTTACTTTATGTTTATGCAACGGAAGAATATTGCCATTGTTGGAATGC 60
QY 61 TTTTTCAGATCATCAAGGCTCCTACAGATTTCTTAGGGAATGTTTCAGGCTTTTGTTA 120
Db 61 TTTTTCAGATCATCAAGGCTCCTACAGATTTCTTAGGGAATGTTTCAGGCTTTTGTTA 120


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; GENERAL INFORMATION:
; APPLICANT: ROSENTHAL, ANDRE
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHAFER, REINHARD
; APPLICANT: ZUBER, JOHANNES
; APPLICANT: TCHE-NITSE, OLEG
; APPLICANT: GRIPS, MARTIN
; APPLICANT: HELNEGEL, MARTIN
; APPLICANT: SCHMITZ, ANNE-CHANTAL
; APPLICANT: SERS, CHRISTINE
; TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS
; FILE REFERENCE: ALBRE-14
; CURRENT APPLICATION NUMBER: US/09/930,213
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: DE 10004102.7
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 885
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 330
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (4)
; OTHER INFORMATION: a, t, c, g, other or unknown
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: a, t, c, g, other or unknown
; US-09-930-213-54

Query Match
Best Local Similarity 1.3%; Score 21; DB 10; Length 330;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 416 TTATCCCTCTGTGGTGACCC 436
Db 148 TTATCCCTCTGTGGTGACCC 168

RESULT 5
US-09-803-719-707
; Sequence 707, Application US/09803719
; Publication No. US20030044783A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Lewis T.
; APPLICANT: Escobedo, Jaime
; APPLICANT: Innis, Michael A.
; APPLICANT: Garcia, Pablo Dominiguez
; APPLICANT: Sudduth-Klinger, Julie
; APPLICANT: Reinhard, Christoph
; APPLICANT: Giese, Klaus
; APPLICANT: Randazzo, Filippo
; APPLICANT: Kennedy, Giulia C.
; APPLICANT: Pot, David
; APPLICANT: Kassam, Altaf
; APPLICANT: Lamson, George
; APPLICANT: Drmanac, Radoje
; APPLICANT: Crkvenjakov, Radomir
; APPLICANT: Dickson, Mark
; APPLICANT: Drmanac, Snezana
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Kita, David
; APPLICANT: Garcia, Veronica
; APPLICANT: Jones, Lee William
; APPLICANT: Stache-Crain, Birgit
; TITLE OF INVENTION: Human Genes and Gene Products
; FILE REFERENCE: 1624.002
; CURRENT APPLICATION NUMBER: US/09/803,719
; PRIOR FILING DATE: 2001-03-09
; CURRENT APPLICATION NUMBER: 60/188,609
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; PRIOR FILING DATE: 2000-03-09
; NUMBER OF SEQ ID NOS: 2396
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 707
; LENGTH: 394
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-803-719-707

Query Match
Best Local Similarity 1.3%; Score 21; DB 10; Length 394;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 416 TTATCCCTCTGTGGTGACCC 436
Db 49 TTATCCCTCTGTGGTGACCC 69

RESULT 6
US-10-424-599-103891
; Sequence 103891, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 103891
; LENGTH: 406
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_64830C.1
; US-10-424-599-103891

Query Match
Best Local Similarity 1.3%; Score 21; DB 13; Length 406;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1139 TTATTGAAAATCTTCCCAACC 1159
Db 254 TTATTGAAAATCTTCCCAACC 274

RESULT 7
US-09-803-719-1633
; Sequence 1633, Application US/09803719
; Publication No. US20030044783A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Lewis T.
; APPLICANT: Escobedo, Jaime
; APPLICANT: Innis, Michael A.
; APPLICANT: Garcia, Pablo Dominiguez
; APPLICANT: Sudduth-Klinger, Julie
; APPLICANT: Reinhard, Christoph
; APPLICANT: Giese, Klaus
; APPLICANT: Randazzo, Filippo
; APPLICANT: Kennedy, Giulia C.
; APPLICANT: Pot, David
; APPLICANT: Kassam, Altaf
; APPLICANT: Lamson, George
; APPLICANT: Drmanac, Radoje
; APPLICANT: Crkvenjakov, Radomir
; APPLICANT: Dickson, Mark
; APPLICANT: Drmanac, Snezana
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
```



```
; APPLICANT: Kita, David
; APPLICANT: Garcia, Veronica
; APPLICANT: Jones, Lee William
; APPLICANT: Stache-Crain, Birgit
; TITLE OF INVENTION: Human Genes and Gene Products
; FILE REFERENCE: 1624.002
; CURRENT APPLICATION NUMBER: US/09/803,719
; CURRENT FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/188,609
; PRIOR FILING DATE: 2000-03-09
; NUMBER OF SEQ ID NOS: 2396
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1633
; LENGTH: 407
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-803-719-1633

Query Match      1.3%; Score 21; DB 10; Length 407;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 416 TTATCCCTCTGTGGTGACCC 436
Db 195 TTATCCCTCTGTGGTGACCC 215

RESULT 8
US-09-930-213-306
; Sequence 306, Application US/09930213
; Publication No. US20030170625A1
; GENERAL INFORMATION:
; APPLICANT: ROSENTHAL, ANDRE
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHAFER, REINHARD
; APPLICANT: ZUBER, JOHANNES
; APPLICANT: TCHE-NITSE, OLEG
; APPLICANT: GRIPS, MARTIN
; APPLICANT: HELLMER, MARTIN
; APPLICANT: SCHMITZ, ANNE-CHANTAL
; APPLICANT: SERS, CHRISTINE
; TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS
; FILE REFERENCE: ALBRE-14
; CURRENT APPLICATION NUMBER: US/09/930,213
; CURRENT FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: DE 10004102.7
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 885
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 306
; LENGTH: 2000
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-930-213-306

Query Match      1.3%; Score 21; DB 10; Length 2000;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 416 TTATCCCTCTGTGGTGACCC 436
Db 885 TTATCCCTCTGTGGTGACCC 905

RESULT 9
US-10-191-807-3/c
; Sequence 3, Application US/10191807
; Publication No. US20030068691A1
; GENERAL INFORMATION:
; APPLICANT: HU, Song et al.
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND
; TITLE OF INVENTION: USES THEREOF
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; FILE REFERENCE: CL001275-PROV
; CURRENT APPLICATION NUMBER: US/10/191,807
; CURRENT FILING DATE: 2002-07-10
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 108359
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(108359)
; OTHER INFORMATION: n = A,T,C or G
US-10-191-807-3

Query Match      1.3%; Score 21; DB 15; Length 108359;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 240 TTAATGGTTGTGAAGAAATA 260
Db 75869 TTAATGGTTGTGAAGAAATA 75849

RESULT 10
US-10-027-632-54726/c
; Sequence 54726, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54726
; LENGTH: 627
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-54726

Query Match      1.2%; Score 20; DB 13; Length 627;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AAAAATTATTGAAATCTTT 1153
Db 508 AAAAATTATTGAAATCTTT 489

RESULT 11
US-10-027-632-294129/c
; Sequence 294129, Application US/10027632
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; Publication No. US20020198371a1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 294129
; LENGTH: 627
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-294129

Query Match          1.2%; Score 20; DB 13; Length 627;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AAAAAATTATTGAAATCTTT 1153
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Db 508 AAAAAATTATTGAAATCTTT 489
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RESULT 12
US-10-027-632-54726/c
; Sequence 54726, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 294129
; LENGTH: 627
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-54726/c

Query Match          1.2%; Score 20; DB 13; Length 627;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AAAAAATTATTGAAATCTTT 1153
    |||||||
Db 508 AAAAAATTATTGAAATCTTT 489
    |||||||

RESULT 12
US-10-027-632-54726/c
; Sequence 54726, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-03-29
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; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54726
; LENGTH: 627
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-54726
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; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-54726

Query Match          1.2%; Score 20; DB 16; Length 627;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AAAAAATTATTGAAATCTTT 1153
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Db 508 AAAAAATTATTGAAATCTTT 489
    |||||||

RESULT 13
US-10-027-632-294129/c
; Sequence 294129, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 294129
; LENGTH: 627
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(627)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-294129

Query Match          1.2%; Score 20; DB 16; Length 627;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1134 AAAAAATTATTGAAATCTTT 1153
    |||||||
Db 508 AAAAAATTATTGAAATCTTT 489
    |||||||

RESULT 14
US-10-437-963-9063
; Sequence 9063, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
```

; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 9063
; LENGTH: 628
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_15514C.1
US-10-437-963-9063

Query Match 1.2%; Score 20; DB 17; Length 628;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1154 CCAACCATAGAGAAAGTTAAA 1173
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Db 297 CCAACCATAGAGAAAGTTAAA 316

RESULT 15
US-09-815-242-9987/c
; Sequence 9987, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9987
; LENGTH: 768
; TYPE: DNA
; ORGANISM: Salmonella typhi
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(768)
US-09-815-242-9987

Query Match 1.2%; Score 20; DB 9; Length 768;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1249 ACCAGATGAGTTTCTGATT 1268

Db 332 ACCAGATGAGTTTCTGATT 313
Search completed: August 7, 2004, 13:44:10
Job time : 807.325 secs

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